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Macell.

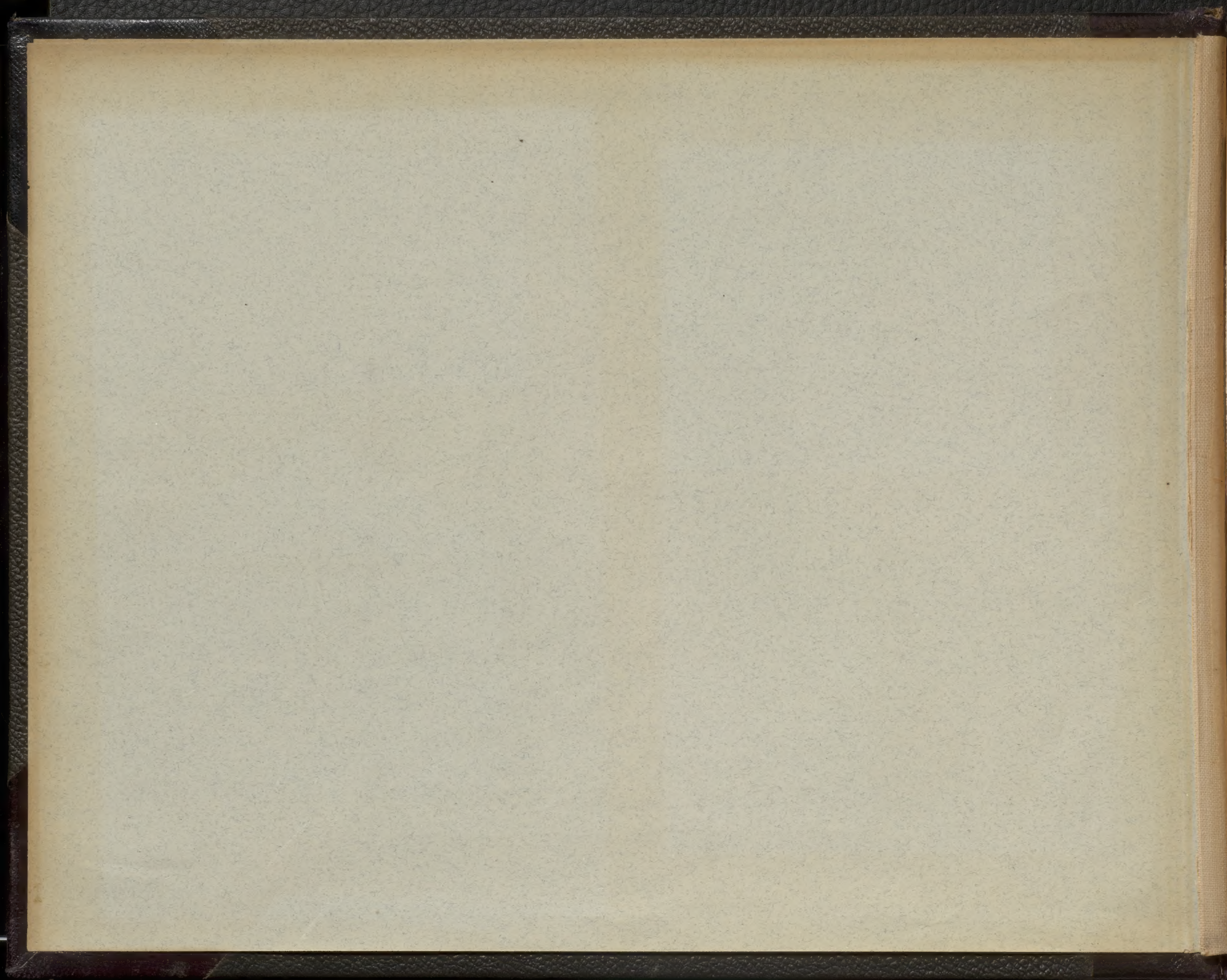
ACC. NO. 226304 REC'D 1927





Ellen Woodward  
1893.







Chelsea,  
June 3rd 1887.

Dear Dr. Woodward,

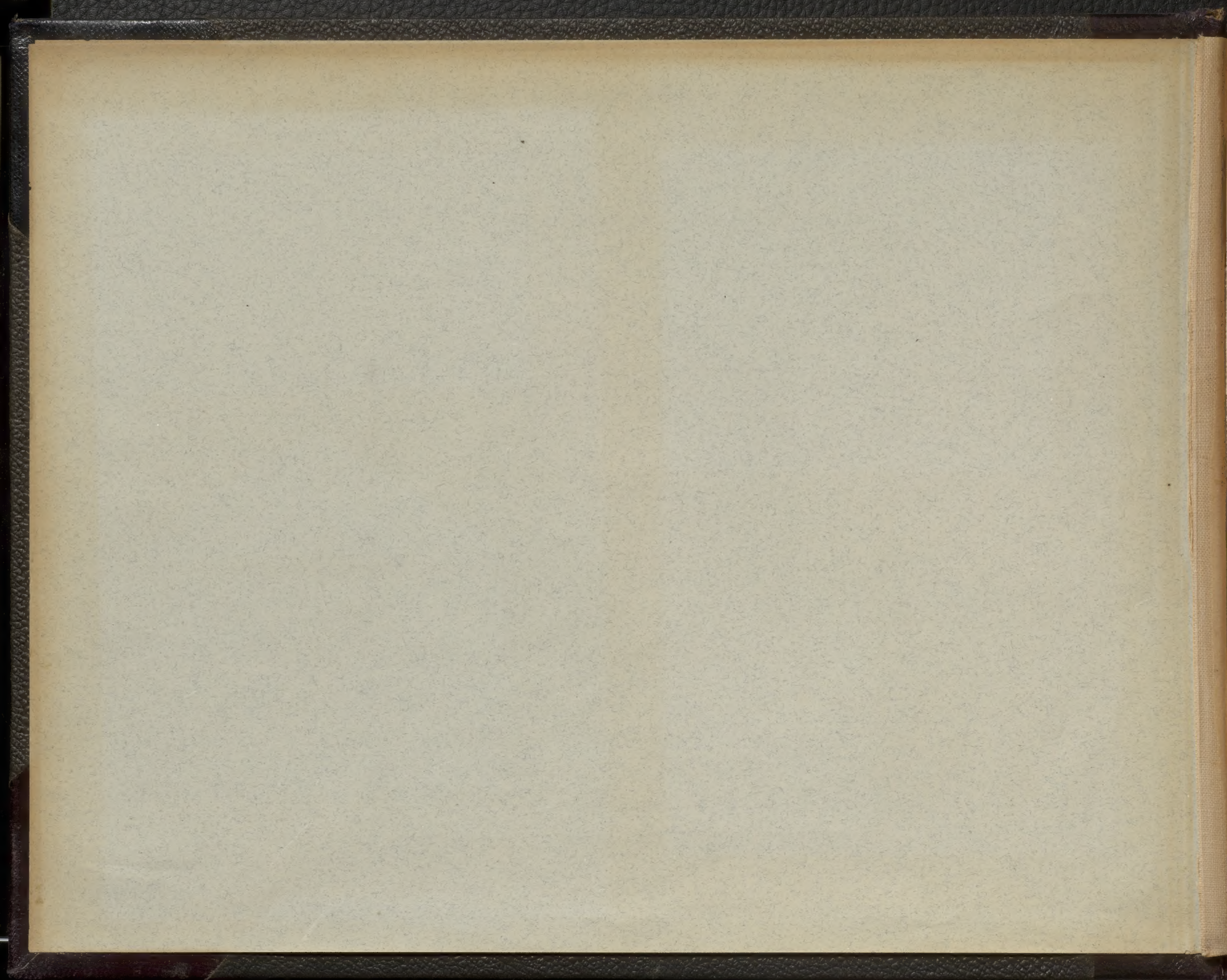
After your very kind  
note last Saturday I decided  
to postpone *Myliobatis* until  
November, as I thought it  
would probably be too late  
in the present session to  
ask for plates at the Geol.  
Soc. This week I have  
been spending my evenings  
in completing the paper on  
the Brazilian Fishes. I  
should much like to send

Munich,  
May 10th. 1891.

Dear Dr. Woodward,

We have arrived thus far  
in safety & have at last reached  
a respectable climate. In the  
Rhine Valley it was nearly as  
bad as in England. I left  
all the fishes in Sturtz's estab-  
lishment for Dr. Traquair, and  
only selected a series of mammals,  
chiefly from the Phosphorites, to be  
sent to you on approval - about  
£35. value. Some of them are  
unique, and so far as I can  
remember, they would all be acqui-  
sitions for the B. M.; but any  
number may be returned. There  
are also a few French Miocene bird-  
bones for selection & consideration.







Sturtevant says he bought the Phos-  
phorite specimens lately from  
someone in Marseilles; possibly  
they are the duplicates from the  
collection offered to the Museum  
a year ago, & which was said to  
be wanted by someone in Mar-  
seilles.

Yesterday we saw Prof.  
Schlüter in Bonn. The collection  
has been removed from Oppel-  
dorf to the main building of the  
University in Bonn. The fishes  
from the Eifel are very poor scraps  
compared with the collection bought  
by St. Muretz for Cambridge. I  
am just going out to search for  
friends and hope to have a good  
day in the Palaeont. Mus. to-morrow.

With kind regards,

Yours Respectfully,

Arthur Smith Woodward.



it in to the Zoological Society  
in time to be announced for  
their last meeting, for I am  
afraid, if left much longer,  
the Americans will forestall  
it. Prof. Cope has already  
written two papers on Brazilian  
Fossil Vertebrates, but he seems  
to have missed Rhacolepis  
at present. If I may  
send it, will you do me the  
honour of associating with it  
your paper on the insects' wing  
(date, <sup>23rd.</sup> ~~24th.~~ inst)?

Yours Respectfully,  
A. Smith Woodward.



Munich,

May 10th. 1891.

Dear Dr. Woodward,

We have arrived thus far  
in safety & have at last reached  
a respectable climate. In the  
Rhine Valley it was nearly as  
bad as in England. I left  
all the fishes in Sturtz' estab-  
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unique, and so far as I can  
remember, they would all be acqui-  
sitions for the B. M.; but any  
number may be returned. There  
are also a few French Miocene bird-  
bones for selection & consideration.



Yarmouth - 20<sup>th</sup> Apr 36

Dear Thomas,

Your letter came safe to hand & quite unexpected - for I did not know what to think of your prolonged taciturnity - I did not think you were among the troops of emigrants who have been leaving this country all the Spring - but whether of the living, or no - I have however set the matter at rest with proposals for a combat - I'll just tell you this, if you can clear the matter you have conquered - Some, mine - but there is one great I cannot join with, & which I send out to you. I hardly know what of the Bible, or a preference of to it -



Drawn by BB Woodward when a youth



Bernard Bohingbroke Woodward.  
B.A., F.S.A., Librarian to the Queen  
at Windsor. Born at Norwich May  
2<sup>nd</sup> 1816. died in London Oct. 12<sup>th</sup> 1869.  
He was eldest son of Samuel Woodward  
Geologist & Antiquary of Norwich.  
& was educated in a private school  
& afterwards entered Highbury Coll.  
He took his B.A. Lond. in 1840, &  
became minister of a Congregational  
Church at Wootton near Warleston  
in Norfolk. He resigned his past-  
oral office in 1849 & settled in London  
as a professional man of letters.  
In 1863 he was appointed Keeper  
of Prints & Drawings at Windsor  
Castle & Librarian in Ordinary to  
the Queen, the duties of this office  
he continued to discharge until  
his death.

Mr. Woodward was author of a  
"History of Wales," a "History of Hampshire,"  
a "Monograph of Windsor Castle,"  
"Specimens of the Drawings of Ten  
Masters" & edited & contributed  
to various other works.

London, Dec. 1869.

My dear Mr. C.

I have just received your letter of the 10<sup>th</sup> inst. in relation to the book at the British Museum. I have been in part satisfied. I have my own doubts as to the book at the British Museum. It is a pretty good copy. But there is no pre-  
tence to give more than specimens; & the  
specimens are on card paper covered  
with a thin layer of paper.  
If you are to think about such a work,  
I think you would find this publication a help.  
I have the possibility of the same  
I have a copy of the series, desirably  
superior to the others, I recommend you  
to. If you think of it - at all, I am sure







Bern  
 B.A.  
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 He  
 Geol  
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 He  
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 as  
 In  
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 Mr  
 "Kist  
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 Ina  
 So

tell you at home, as I have plenty of them  
 of a Prospectus circular in some of the  
 Colleges, museums & libraries, as by making  
 inquiries they would find out, and I am  
 any you may want to complete, as to  
 any information you may want. But I  
 either determine to do it, or not. I have  
 obtained for naming the place, and I am  
 but I don't like to tell you, and I don't  
 out of your hands; if you wish to  
 would mention it, then it would be  
 of some right of the, then sure  
 and a thing would be done, but I don't  
 just now.

In back collection to you at  
 Yours  
 Yours  
 L. S.



London 20th April 1841

My dear Sir,

I have the pleasure to acknowledge the receipt of your letter of the 14th inst. and to thank you for the copy of the letter of the 10th inst. which you were good enough to send me. I have been thinking of this matter for some time, and I am glad to hear that you are so much interested in it. I have been thinking of this matter for some time, and I am glad to hear that you are so much interested in it. I have been thinking of this matter for some time, and I am glad to hear that you are so much interested in it.

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Bernard Bohingbroke Woodward.  
B.A., F.R.A., Librarian to the Queen  
at Windsor. born at Norwich May  
2<sup>nd</sup> 1816. died in London Oct. 12<sup>th</sup> 1869.  
He was eldest son of Samuel Woodward  
Geologist & Antiquary of Norwich.  
& was educated in a private school,  
Walsingham Coll.

Hand in die

Alfred Lloyd

[illegible]

I am sure you will think that such a  
 volume is worth for the public a long  
 and I have the feeling of the same  
 and you are perhaps more than  
 a paper in your hands. I am sure  
 you will be glad to see it.



[illegible]

If you have seen St. James's little Geological  
will see there some remarks on Death which  
I think you will find not uninteresting

This chapter in the Scripture is equally  
not for the captives but for men either such  
as do, or would be, the best of the  
of the & dream is a very rare thing.

"He" here means the conshipper of ideas  
that is I, in the house again. This is a  
real way in that what we know is  
not. The winners, not winners I kept  
to follow in the century. I am a rebel, I  
am but at the end is the end.

We have of course seen the letters & the  
part of the first number proposed by the  
Rev. Mr. [unclear] [unclear] you will see with  
the that our conference to look at [unclear]  
[unclear] [unclear] as "her mission" & have [unclear]  
stopped out of place."

Hope you Sunday School goes well & that  
 the school Union Committee will be

we must leave me if I have not stated  
sincerely say so, write by the 4th, I mean  
with respect to





General Hingham's household  
 B. & S. Johnson to the present  
 at Hingham house at Hingham Mass  
 and so that in some part of it  
 the most of the small children  
 together with the young of the mother  
 is concerned in a private school



[illegible]

I have  
the great  
state of  
the nation  
and the  
people's  
interests  
in mind  
I shall  
be able  
to do so

I have  
 a great  
 deal of  
 business  
 to do  
 and  
 I am  
 very  
 busy  
 at  
 present  
 but  
 I  
 will  
 be  
 glad  
 to  
 hear  
 from  
 you  
 soon  
 and  
 I  
 hope  
 to  
 see  
 you  
 soon  
 I  
 am  
 very  
 truly  
 your  
 friend  
 Wm. L. G.

I have  
 of the  
 to the  
 says I  
 Chap. 11  
 to the  
 of the  
 at the  
 I receive  
 to

1. 1. 1.  
 2. 1. 1.  
 3. 1. 1.  
 4. 1. 1.  
 5. 1. 1.  
 6. 1. 1.  
 7. 1. 1.  
 8. 1. 1.  
 9. 1. 1.  
 10. 1. 1.

1. 1. 1.





Bernard Bolingbroke Woodward  
B.L., F.S.S. Librarian to the Queen  
at Windsor. Born at Norwich May  
2<sup>nd</sup> 1816. died in London Oct 12<sup>th</sup> 1907.  
He was eldest son of Samuel Woodward  
geologist & antiquary of Norwich.  
& was educated in a private school  
" " " " Coll

I have been thinking of you very much lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you very much lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you.





HENRY WOODWARD, LL.D., F.R.S.  
President of the Geology Section

DR. HENRY WOODWARD, F.R.S., F.G.S.

KEEPER OF GEOLOGY,

BRITISH MUSEUM (NATURAL HISTORY).

CROMWELL ROAD SOUTH KENSINGTON.

S W



*Henry Woodward.*





66 Princes Street  
Edinburgh  
1 July 1864

My dearest wife,

You will be glad  
I am sure to know that  
I reached Edinburgh safely  
by  $\frac{1}{2}$  past 9 this morning  
after a very long & tiring  
Journey, but (for a 3<sup>rd</sup> class)  
a most comfortable train.  
I took a fly to Hawk Hill  
Loch End, the private house  
of Mr Alex Bryson where  
I received a very kind welcome  
a good bedroom, a warm-  
bath, a good breakfast,  
& then walked up to Town.





HENRY WOODWARD, LL.D., F.R.S.,  
President of the Geology Section

DR. HENRY WOODWARD, F.R.S., F.G.S.

KEEPER OF GEOLOGY.

BRITISH MUSEUM, (NATURAL HISTORY)

CROMWELL ROAD, SOUTH KENSINGTON.

S. W

Mr Bryson has been married  
twice & is again a widower;  
a fine opening for Miss Hobson!  
his eldest son by the 1<sup>st</sup> wife  
is 19 & is at Geneva studying,  
his youngest was <sup>almost</sup> my constant  
companion & is only 5 years old.  
Tell Mrs Morison I have  
not seen the boys, but Mr  
John - & he has promised  
that one at least shall give  
me the pleasure of their  
company about Edinburgh  
tomorrow. James writes to  
ask me not to go down on  
Sunday, but on my return,  
I fear he is displeased with  
my declining to my first made  
arrangement to have him  
come to Edinburgh & see me.  
Don't notice it. Love him all the same.



Mr Bryson's is a very nice  
comfortable place & he is  
evidently a great man &  
rich too. His shop (in which  
he & his Brother are partners)  
is one of the best in Princes  
St, close to Scott's Monument.  
I cannot give you much  
of an idea of the new part  
of Edinburgh it is so unlike  
any other city I have seen.  
The streets are so wide &  
all the houses built of stone  
& so many fine buildings &  
Public gardens & then the  
inequality of the ground give  
such fine natural effects  
& then Arthur's Seat & the  
Castle Rock are so grand!  
I wish you could see it all!





HENRY WOODWARD, LL.D., F.R.S.  
President of the Geology Section

DR. HENRY WOODWARD, F.R.S., F.G.S.

KEEPER OF GEOLOGY.

BRITISH MUSEUM (NATURAL HISTORY)

CROMWELL ROAD SOUTH KENSINGTON.

S. W.

I send you 5 photographs  
by Book post however to  
assist your fancy. I dare  
say Mrs. Morrison may have  
already shown you the  
same but I did not think  
of this when I bought them.  
Excuse me now as I am  
so seedy as I could not sleep  
much or indeed at all!  
I am not suffering from either  
color or headache that is  
one good thing.

Mr Bryson is very kind &  
I have no doubt I shall  
stay till Mr Powrie's and  
cousins. Love to yourself & the  
kids & lots of kisses - Kind  
regards to Day  
Will write again tomorrow,  
Yours affectly,  
Henry Woodward.  
P.S. Write again here tomorrow.







PRIVATELY PRINTED.]

## DR. HENRY WOODWARD.

HENRY WOODWARD. LL.D., F.R.S., F.G.S., F.Z.S., F.R.M.S., V.P. Pal. Soc., Keeper of the Department of Geology, British Museum (Natural History), is the sixth son of the late Samuel Woodward, of Norwich, author of "The Geology of Norfolk," 1833; a "Synoptical Table of British Organic Remains," 1830; "History and Antiquities of Norwich Castle," 1836; etc. His eldest brother, Mr. B. B. Woodward, B.A., Lond., F.S.A., was for some years Librarian to Her Majesty at Windsor Castle. He was author of a History of Wales; History of the United States; History of Hampshire; and joint author with W. L. R. Cates of an Encyclopædia of Chronology, etc. His second brother, Dr. S. P. Woodward, F.G.S. for seventeen years in the Department of Geology, British Museum, was a geologist and naturalist of eminence, and author of a "Manual of the Mollusca," (1851-56), which has had a wonderful popularity, and reached a sale of upwards of 12,000 copies.

The subject of the present notice was born at Norwich, November 24, 1832. His father died when he was only five years of age. Henry Woodward was educated at the Norwich Grammar School, under the Rev. J. Banfather, and afterwards by the Rev. G. Haddock, at the Grammar School, Botesdale, Suffolk. From thence, in 1846, he went to reside with his brother, Dr. S. P. Woodward, at that time Professor of Natural History at the Royal Agricultural College, Cirencester, where he entered as an out-door student at the College, and worked diligently for three years. Here he imbibed that knowledge of Geology and love of Natural History, which, inherited from his father, only needed opportunity and encouragement to develop. The lectures by Professors Way and Blyth on Chemistry greatly stimulated his mind, and he spent much time in fitting up apparatus for himself, and carrying out on a small scale, with Professor Way's Assistant, chemical and electrical experiments. Geologising, Botanizing, and collecting Insects and land and fresh-water Mollusca on the Cotteswold Hills, with lectures at the College, occupied all his time. At Christmas, 1849, he came to London, and after his brother was appointed to the British Museum, he was engaged by the Botanical Society of London to work at their Herbarium, and by Dr. J. E. Gray, in preparing slips for Zoological Catalogues in the British Museum.

In 1851 he entered the East of England Bank at Norwich, where he remained until early in 1858. This period was one of severe but useful discipline, which had its influence on his after-life. His Natural History pursuits were not abandoned, and he diligently collected Chalk and Crag fossils, and maintained his old studies in his leisure hours.

In 1857, Mr. Woodward married Ellen Sophia, only child of M. F. Page, Esq., of Norwich, by whom he has two sons and five daughters.

In January, 1858, Prof. Owen, the Superintendent of the Natural History Departments in the British Museum, wrote, offering him a junior Assistant's post in the Geological Department, under Mr. G. R. Waterhouse, and where his brother, Dr. S. P. Woodward, was already a senior Assistant. His ready acceptance of this small post evinced

his anxiety to take up Geology as a profession, and he entered on his new duties with alacrity.

In 1859 he was made a second class Assistant; in 1865 a first class; and in 1867 he entered the first class upper section, a proof that his services met with favourable official recognition.

In the spring of 1860 he accepted an invitation to join Mr. Robert MacAndrew, F.R.S., on a dredging expedition to the south coast of Spain and the Mediterranean; and at Malaga and Gibraltar he made excellent zoological and geological collections.

In 1863 he again joined MacAndrew in a dredging expedition along the north coast of the Spanish Peninsula from Bilbao to Coruna. Excursions were also made into the interior to Vittoria, Burgos, &c.

In 1864 Mr. Woodward commenced, with Prof. T. Rupert Jones, F.R.S., to edit the *Geological Magazine*, a monthly journal of Geology (with which is incorporated the "Geologist"). This journal, which Mr. Woodward has edited in chief since 1865, assisted by Professor John Morris, M.A., F.G.S., Mr. Robert Etheridge, F.R.S., Mr. W. H. Hudleston, M.A., F.R.S., and Dr. G. J. Hinde, F.G.S., has attained a well-merited scientific success, and reached its 314th monthly number August, 1890.

Dr. Woodward's contributions to scientific literature commenced in 1860, and have continued to the present time in the Quarterly Journal of the Geological Society, the Proceedings of the Geologists' Association, the Annals and Magazine of Natural History, the Geological Magazine, and other scientific periodicals. His separate memoirs number nearly 200; he has also published a Monograph on the "Fossil Merostomata," and one on "Carboniferous Trilobites," in the volumes of the Palæontographical Society, a Catalogue of British Fossil Crustacea, published by the Trustees of the British Museum; articles on "Mollusca" and "Crustacea," in Cassell's Natural History; and on "Crustacea," in the Encyclopælia Britannica.

In 1873-4 Mr. Woodward was elected President of the Geologists' Association, and a Vice-President of the Geological Society of London, 1887-8. *President 1894-5. President of the Malacological Society 1893-4*

In 1873 he was elected a Fellow of the Royal Society, and in 1878 the University of St. Andrews conferred upon him the honorary degree of LL.D.

On the 23rd June, 1880, on the retirement of Mr. George R. Waterhouse, the Principal Trustees appointed Dr. Henry Woodward Keeper of the Department of Geology, in which he had served as an Assistant for twenty-two years; a promotion which has been received with satisfaction among scientific men generally.

In 1886 he was a Vice-President of Section C (Geology), and in 1887 he was elected President of that Section at the Manchester Meeting of the British Association.

Since June, 1880, Dr. Woodward, with his Assistants, has achieved the arduous task of re-arranging the entire Geological Collection in the new Galleries of the Natural History Museum, Cromwell Road, where, by the aid of popular and well-illustrated Guide Books, together with diagrams and descriptive labels, the scientific student, and even the ordinary mass of visitors, can take a lively interest in the objects displayed in the cases, and find it full of interest and attractiveness.

Dr. Woodward's eldest son, H. P. Woodward, F.G.S., is now Government Geologist for Western Australia, and the younger, M. F. Woodward, is Demonstrator in Biology in the Normal School of Science and the Royal School of Mines, South Kensington.

*President Palæontographical Soc. 1896.*



66 Princes Street,  
Edinburgh  
1 July 1864

My dearest wife,  
You will be glad  
I am sure to know that  
I reached Edinburgh safely  
at 1/2 past 9 this morning  
after a very long & tiring  
journey, but (for a 3<sup>rd</sup> class)  
a most comfortable train.  
I took a fly to Stank Hill  
Lock End, the private house  
of Mr. Alex. Bryson where  
I received very kind welcome  
a fire bedroom, a warm  
bath, a good breakfast  
after waiting up to ten

Henry Woodard





has nothing to do with business, but people like to be posted in the antecedents of those with whom they are dealing, and for the information of those on this side of the world who may have occasion to require an honest, skilled report on any mining property in Western Australia I append a few particulars of Mr. Woodward's career, which is naturally not so well known in England as in Australia, where his professional life has been spent. [See ante, p. 385.]

“Besides his official publications, he has contributed many valuable papers to the learned societies, and has published an extremely useful Mining Handbook to the Colony of Western Australia.

“Mr. Woodward was the first to predict the discovery of artesian water upon the plains to the westward of the Darling Range in Western Australia, where the numerous bores put down are yielding an abundant supply of fresh water. Also, unfortunately, his prediction has up to date proved equally true that no artesian water would be struck upon the goldfields. From their first discovery, Mr. Woodward had the very highest opinion of the value and permanence of the goldfields, advocating strongly the construction of a railway into the interior long before the Government had sufficient confidence in their success to incur the cost of making it. He always in his official capacity as Government Geologist did his best to protect the British investor from the numerous spurious and worthless undertakings put forward by the unscrupulous to ensnare the public, and for which he received the usual thanks.

“He acted for some months as Warden of the Dundas Goldfields, and is thoroughly acquainted with all the goldfields and other mineral areas of the Colony.

“It will be seen from the above that Mr. Woodward has established a right to the title of ‘expert,’ which seldom appertains to the numerous self-confident gentlemen who without any credentials have assumed the diploma, greatly to their own gain and the loss of the British investor.”



HARRY P. WOODWARD,

(A.M. INST. C.E.,) F.G.S., ETO.,

Mining Engineer.

G.P.O. BOX NO. 346.

TELEPHONE NO. 254.

TELEGRAPHIC ADDRESS—WOODWARD, PERTH.

Perth, W. A.

Dec 5<sup>th</sup>

1897



Dear Mother

Maudie with last week to the firm  
of Lancaster & Portsmouth for some childrens  
things which come to £1-6-8. what postage &  
instructions then to apply to you for the money—  
We received Alice's books & like them very  
much the only point I don't like is that  
the rain is too heavy too much after the old  
German style out of course that is a matter  
of taste. What a wonderful change since  
time in childrens books.

I am off to the Collie Coal fields tomorrow  
as I am consulting engineer to one of the Coys  
I hope to have another very long stay. I hear  
that they have got some fossils so I will  
send Father some. I had a stroke of  
luck I got coal for the Coy 3 days ago  
I started & they had been waiting for a 1 1/2  
year without getting any.

All the family are well & send love  
from Harry P. Woodward





has nothing to do with business, but people like to be posted in the antecedents of those with whom they are dealing, and for the information of those on this side of the world who may have occasion to require an honest, skilled report on any mining property in Western Australia I append a few particulars of Mr. Woodward's career, which is naturally not so well known in England as in Australia, where his professional life has been spent. [See ante, p. 385.]

\* \* \* \* \*

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HARRY P. WOODWARD,

(A.M. INST. C.E.,) F.G.S., ETC.,

Mining Engineer.

G.P.O. BOX NO. 346.

TELEPHONE NO. 254.

TELEGRAPHIC ADDRESS—WOODWARD, PERTH.

Dear Mr  
Mr  
of London  
this is  
instructions  
we  
much  
the rain  
Carmen  
of time.  
time is  
I am  
as I am  
there







Henry Page Woodward, F.G.S., F.R.G.S. <sup>Assoc. Mem. Inst. C.E.</sup>  
 born at Norwich May 16<sup>th</sup> 1858 the eldest  
 son of Dr. Henry Woodward F.R.S. was  
 educated at the North London Collegiate  
 School & afterwards at University College.  
 was for three years with Mr. W. Symonds  
 to learn wood engraving, & later working  
 in Prof. Judd's class in the Royal College  
 of Science. In 1883 he was appointed  
 Assistant Government Geologist to South  
 Australia under H. L. Brown Esq. F.R.S.  
 which post he held 3 1/4 years returning  
 to England in 1886. He was elected F.G.S.  
 in 1883. Mr Woodward worked in  
 the Metallurgical Laboratory at the  
 Royal College of Science from Oct. 86. to June 87  
 On Dec 2 1887 he was appointed Government  
 Geologist for Western Australia. In 1895  
 he joined the firm of Bewick, Moore &  
 Co. but retired from their service in  
 March 1897. Mr Woodward is author  
 of a Mining Handbook for Western  
 Australia, & of several papers in the  
 Geological Magazine &c.



A WESTERN AUSTRALIAN GEOLOGIST.

HARRY PAGE WOODWARD,

J.P., F.G.S., ASSOC. M. INST. C.E., F.R.G.S.;

HONORARY CONSULTING GEOLOGIST AND MINING ENGINEER TO THE COLONY OF  
WESTERN AUSTRALIA.

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*Yours faithfully  
Harry P. Woodward*



[Extracted from the GEOLOGICAL MAGAZINE, Decade IV, Vol. IV,  
No. 399, p. 385, September, 1897.]

A WESTERN AUSTRALIAN GEOLOGIST:

HARRY PAGE WOODWARD, J.P., F.G.S., Assoc. M. Inst. C.E., F.R.G.S.;  
Honorary Consulting Geologist and Mining Engineer to the Colony of Western  
Australia.

(WITH A PORTRAIT, PLATE XVIII.)

EVERYTHING relating to the progress of geology in our Colonies is, or ought to be, of interest to geologists at home; and those who have helped forward this movement are also deserving of recognition and commendation here. The subject of the present notice has left his hammer-marks on the rocks of Western Australia, and has covered many thousand miles on horseback, on foot, by rail and steamboat, from north to south and from east to west of this great region, containing an estimated area of 976,000 square miles, being about nine times that of the United Kingdom, and covering about one-third of the whole Australian Continent.

Harry Page Woodward was born at Norwich, May 16, 1858, and is the son of Dr. Henry Woodward, F.R.S., V.P.G.S., Keeper of the Geological Department in the British Museum (Natural History); and grandson of Mr. Samuel Woodward, of Norwich, the well-known geologist and antiquary; so that he represents the third of a line of geologists, and belongs to a family in which uncles and cousins are also noted men of science. After being educated at University College School, London, he studied geology with Professor Judd in the Royal College of Science, South Kensington, and field-work with his cousin, Mr. Horace B. Woodward, F.R.S., of the Geological Survey of England and Wales. In 1883 he was appointed, upon the recommendation of Sir A. Geikie and Professor J. W. Judd, C.B., Assistant Government Geologist to the Colony of South Australia. Here, under that able geologist Mr. Henry Y. Lyell Brown, F.G.S., the Government Geologist for South Australia, he served for three and a quarter years, covering a large mileage area, and making several reports on the goldfields and other regions of that Colony. He also served for some time as geologist on the Boundary Commission between New South Wales and South Australia, and saw a great extent of the interior of the country. During his residence in South Australia, H. P. Woodward visited Melbourne and inspected the principal mines at Ballaarat and other places in the colony of Victoria. In 1886 he returned to London and

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spent a year in the Metallurgical Laboratory of the Royal College of Science. On December 2, 1887, having been appointed by the Secretary of State for the Colonies to the post of Government Geologist for Western Australia, he sailed for King George's Sound, arriving in Perth in January, 1888. Here, under the direction of Sir Malcolm Fraser, the Surveyor-General and Commissioner of Crown Lands, and Sir John Forrest, the present Premier, he was called upon to visit, and make reports upon, the vast line of proclaimed goldfields, from Kimberley, Pilbarra, and Ashburton in the north, to the Murchison, Yilgarn, Dundas, and Coolgardie Goldfields in the south. He studied and reported upon the Irwin River and the Collie Coalfields; the Greenbushes Tinfield, near the Blackwood River; and was constantly in request to advise about questions of water-supply in all parts of the colony. In his Annual Report for 1890 he published his first general geological description of the Colony. This was in such demand and so quickly out of print that it became necessary to supply in some way the much needed information. This took the form, in 1894, of a Mining Handbook to the Colony of Western Australia, which has had a phenomenal circulation, and the same year saw the publication of a Sketch-Map of Western Australia (geologically coloured so far as Mr. Woodward's explorations had then extended).

About 1882, Mr. E. T. Hardman (of the Irish Geological Survey), who was employed to report on the Kimberley district, discovered gold there, which proved to be rich and to extend over a large area, but situated as it is, in such a distant part, it did very little good to the settled portion of the Colony.

In 1887, the year of Mr. H. P. Woodward's appointment, Mr. Anstey discovered gold at Yilgarn, about 200 miles east of Perth; and although the earlier finds proved to be of little value, they led to the subsequent discovery of a permanent and payable field a few miles further south. The next discovery, in 1889, east of Roeburn, led to the opening up, in the north-west, of the Ashburton Goldfield, where on the river of that name some rich deposits were also met with, and a large quantity of alluvial gold was sent away in a short time. The Murchison Goldfield followed in 1891, where many rich reefs and a large quantity of alluvial gold were discovered.

The most sensational discovery was that made in 1892, by a man named Bayley, about 100 miles due east of Southern Cross. Here a very large quantity of gold was obtained, and one reef which has been the wonder of the Colonies. In 1893 another (the Dundas Goldfield), still more to the south, was proclaimed, and Mr. H. P. Woodward was sent down there as the first Warden.

The records of the subsequent years are all covered by the Coolgardie Goldfield, which still nearly fills the entire picture of Western Australian mining affairs. From this brief account it will easily be seen that Western Australia has become purely a great gold-mining Colony, and, so long as gold pays, the other interests (save as accessories to this one leading industry) fade into the background.



When in January, 1888, Mr. H. P. Woodward landed in Albany, Western Australia was a Crown Colony; but on October 22, 1890, the new Constitution was proclaimed, and the Colony is now governed by a Parliament composed of two Houses, described as a Legislative Council and a Legislative Assembly, both of which are elected by the people, so that the Government, as well as the prospects of the Colony, have alike undergone a great change in the past ten years.

In 1895 Mr. H. P. Woodward, after serving the Colony through this very arduous period of its career, was induced to resign his position of Government Geologist and enter the service of that old-established firm of Messrs. Bewick, Moreing, and Co., of London and Coolgardie. Mr. Woodward most successfully managed their Coolgardie branch for a year and three months; he then decided in the present year to commence business for himself as a Mining Engineer and Consulting Geologist in Perth and Coolgardie.

It is gratifying to state that although the Ministry did not offer any special inducement to Mr. H. P. Woodward to remain in their employ, they yet recognized his past valuable services by conferring upon him the title of Honorary Consulting Geologist and Mining Engineer to the Colony of Western Australia.

In 1883 Mr. H. P. Woodward was made a Justice of the Peace for the Colony. He was elected a Fellow of the Geological Society in 1884, and is also a Fellow of the Royal Geographical Society. He is an Assoc. Memb. Inst. C.E., a member of the Institute of Mining and Metallurgy; a member of the North of England Institute of Mining and Mechanical Engineers, and President of the local branch of that Society. His name is not unfamiliar as a contributor to the pages of the GEOLOGICAL MAGAZINE.

On December 31, 1890, Mr. H. P. Woodward married Ellen Maude, the second daughter of the Hon. J. F. T. Hassell, of Albany, by whom he has three sons.

Mr. Woodward some years ago, with two others, started a vineyard of some 120 acres at Cooringa, about 50 miles from Perth, which is one of the most admirably cultivated and successful undertakings in the Colony. It is now managed by a Company, and the wines are likely in a few years to be honourably recognized in European as they have already been in Australian competitions.

The Editor of the *British Australasian*, writing of Mr. Harry Page Woodward, under date July 1, 1897, p. 1,180, says:—

"When, the year before last, Mr. Harry Page Woodward resigned the position of Government Geologist of the Colony of Western Australia, I expressed my condolence with the Government on the loss they were sustaining, and congratulated Messrs. Bewick, Moreing, and Co. on the acquisition they were making in securing the services of a gentleman of such high attainments, such extensive local experience, and such sound, trustworthy character. I now learn that Mr. Woodward has severed his connection with the firm of Bewick, Moreing, and Co., and started 'on his own' as a Mining Engineer, having his headquarters at Perth. Biography

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224-2226-2228-2230-2232-2234-2236-2238-2240-2242-2244-2246-2248-2250-2252-2254-2256-2258-2260-2262-2264-2266-2268-2270-2272-2274-2276-2278-2280-2282-2284-2286-2288-2290-2292-2294-2296-2298-2300-2302-2304-2306-2308-2310-2312-2314-2316-2318-2320-2322-2324-2326-2328-2330-2332-2334-2336-2338-2340-2342-2344-2346-2348-2350-2352-2354-2356-2358-2360-2362-2364-2366-2368-2370-2372-2374-2376-2378-2380-2382-2384-2386-2388-2390-2392-2394-2396-2398-2400-2402-2404-2406-2408-2410-2412-2414-2416-2418-2420-2422-2424-2426-2428-2430-2432-2434-2436-2438-2440-2442-2444-2446-2448-2450-2452-2454-2456-2458-2460-2462-2464-2466-2468-2470-2472-2474-2476-2478-2480-2482-2484-2486-2488-2490-2492-2494-2496-2498-2500-2502-2504-2506-2508-2510-2512-2514-2516-2518-2520-2522-2524-2526-2528-2530-2532-2534-2536-2538-2540-2542-2544-2546-2548-2550-2552-2554-2556-2558-2560-2562-2564-2566-2568-2570-2572-2574-2576-2578-2580-2582-2584-2586-2588-2590-2592-2594-2596-2598-2600-2602-2604-2606-2608-2610-2612-2614-2616-2618-2620-2622-2624-2626-2628-2630-2632-2634-2636-2638-2640-2642-2644-2646-2648-2650-2652-2654-2656-2658-2660-2662-2664-2666-2668-2670-2672-2674-2676-2678-2680-2682-2684-2686-2688-2690-2692-2694-2696-2698-2700-2702-2704-2706-2708-2710-2712-2714-2716-2718-2720-2722-2724-2726-2728-2730-2732-2734-2736-2738-2740-2742-2744-2746-2748-2750-2752-2754-2756-2758-2760-2762-2764-2766-2768-2770-2772-2774-2776-2778-2780-2782-2784-2786-2788-2790-2792-2794-2796-2798-2800-2802-2804-2806-2808-2810-2812-2814-2816-2818-2820-2822-2824-2826-2828-2830-2832-2834-2836-2838-2840-2842-2844-2846-2848-2850-2852-2854-2856-2858-2860-2862-2864-2866-2868-2870-2872-2874-2876-2878-2880-2882-2884-2886-2888-2890-2892-2894-2896-2898-2900-2902-2904-2906-2908-2910-2912-2914-2916-2918-2920-2922-2924-2926-2928-2930-2932-2934-2936-2938-2940-2942-2944-2946-2948-2950-2952-2954-2956-2958-2960-2962-2964-2966-2968-2970-2972-2974-2976-2978-2980-2982-2984-2986-2988-2990-2992-2994-2996-2998-3000-3002-3004-3006-3008-3010-3012-3014-3016-3018-3020-3022-3024-3026-3028-3030-3032-3034-3036-3038-3040-3042-3044-3046-3048-3050-3052-3054-3056-3058-3060-3062-3064-3066-3068-3070-3072-3074-3076-3078-3080-3082-3084-3086-3088-3090-3092-3094-3096-3098-3100-3102-3104-3106-3108-3110-3112-3114-3116-3118-3120-3122-3124-3126-3128-3130-3132-3134-3136-3138-3140-3142-3144-3146-3148-3150-3152-3154-3156-3158-3160-3162-3164-3166-3168-3170-3172-3174-3176-3178-3180-3182-3184-3186-3188-3190-3192-3194-3196-3198-3200-3202-3204-3206-3208-3210-3212-3214-3216-3218-3220-3222-3224-3226-3228-3230-3232-3234-3236-3238-3240-3242-3244-3246-3248-3250-3252-3254-3256-3258-3260-3262-3264-3266-3268-3270-3272-3274-3276-3278-3280-3282-3284-3286-3288-3290-3292-3294-3296-3298-3300-3302-3304-3306-3308-3310-3312-3314-3316-3318-3320-3322-3324-3326-3328-3330-3332-3334-3336-3338-3340-3342-3344-3346-3348-3350-3352-3354-3356-3358-3360-3362-3364-3366-3368-3370-3372-3374-3376-3378-3380-3382-3384-3386-3388-3390-3392-3394-3396-3398-3400-3402-3404-3406-3408-3410-3412-3414-3416-3418-3420-3422-3424-3426-3428-3430-3432-3434-3436-3438-3440-3442-3444-3446-3448-3450-3452-3454-3456-3458-3460-3462-3464-3466-3468-3470-3472-3474-3476-3478-3480-3482-3484-3486-3488-3490-3492-3494-3496-3498-3500-3502-3504-3506-3508-3510-3512-3514-3516-3518-3520-3522-3524-3526-3528-3530-3532-3534-3536-3538-3540-3542-3544-3546-3548-3550-3552-3554-3556-3558-3560-3562-3564-3566-3568-3570-3572-3574-3576-3578-3580-3582-3584-3586-3588-3590-3592-3594-3596-3598-3600-3602-3604-3606-3608-3610-3612-3614-3616-3618-3620-3622-3624-3626-3628-3630-3632-3634-3636-3638-3640-3642-3644-3646-3648-3650-3652-3654-3656-3658-3660-3662-3664-3666-3668-3670-3672-3674-3676-3678-3680-3682-3684-3686-3688-3690-3692-3694-3696-3698-3700-3702-3704-3706-3708-3710-3712-3714-3716-3718-3720-3722-3724-3726-3728-3730-3732-3734-3736-3738-3740-3742-3744-3746-3748-3750-3752-3754-3756-3758-3760-3762-3764-3766-3768-3770-3772-3774-3776-3778-3780-3782-3784-3786-3788-3790-3792-3794-3796-3798-3800-3802-3804-3806-3808-3810-3812-3814-3816-3818-3820-3822-3824-3826-3828-3830-3832-3834-3836-3838-3840-3842-3844-3846-3848-3850-3852-3854-3856-3858-3860-3862-3864-3866-3868-3870-3872-3874-3876-3878-3880-3882-3884-3886-3888-3890-3892-3894-3896-3898-3900-3902-3904-3906-3908-3910-3912-3914-3916-3918-3920-3922-3924-3926-3928-3930-3932-3934-3936-3938-3940-3942-3944-3946-3948-3950-3952-3954-3956-3958-3960-3962-3964-3966-3968-3970-3972-3974-3976-3978-3980-3982-3984-3986-3988-3990-3992-3994-3996-3998-4000-4002-4004-4006-4008-4010-4012-4014-4016-4018-4020-4022-4024-4026-4028-4030-4032-4034-4036-4038-4040-4042-4044-4046-4048-4050-4052-4054-4056-4058-4060-4062-4064-4066-4068-4070-4072-4074-4076-4078-4080-4082-4084-4086-4088-4090-4092-4094-4096-4098-4100-4102-4104-4106-4108-4110-4112-4114-4116-4118-4120-4122-4124-4126-4128-4130-4132-4134-4136-4138-4140-4142-4144-4146-4148-4150-4152-4154-4156-4158-4160-4162-4164-4166-4168-4170-4172-4174-4176-4178-4180-4182-4184-4186-4188-4190-4192-4194-4196-4198-4200-4202-4204-4206-4208-4210-4212-4214-4216-4218-4220-4222-4224-4226-4228-4230-4232-4234-4236-4238-4240-4242-4244-4246-4248-4250-4252-4254-4256-4258-4260-4262-4264-4266-4268-4270-4272-4274-4276-4278-4280-4282-4284-4286-4288-4290-4292-4294-4296-4298-4300-4302-4304-4306-4308-4310-4312-4314-4316-4318-4320-4322-4324-4326-4328-4330-4332-4334-4336-4338-4340-4342-4344-4346-4348-4350-4352-4354-4356-4358-4360-4362-4364-4366-4368-4370-4372-4374-4376-4378-4380-4382-4384-4386-4388-4390-4392-4394-4396-4398-4400-4402-4404-4406-4408-4410-4412-4414-4416-4418-4420-4422-4424-4426-4428-4430-4432-4434-4436-4438-4440-4442-4444-4446-4448-4450-4452-4454-4456-4458-4460-4462-4464-4466-4468-4470-4472-4474-4476-4478-4480-4482-4484-4486-4488-4490-4492-4494-4496-4498-4500-4502-4504-4506-4508-4510-4512-4514-4516-4518-4520-4522-4524-4526-4528-4530-4532-4534-4536-4538-4540-4542-4544-4546-4548-4550-4552-4554-4556-4558-4560-4562-4564-4566-4568-4570-4572-4574-4576-4578-4580-4582-4584-4586-4588-4590-4592-4594-4596-4598-4600-4602-4604-4606-4608-4610-4612-4614-4616-4618-4620-4622-4624-4626-4628-4630-4632-4634-4636-4638-4640-4642-4644-4646-4648-4650-4652-4654-4656



Horace Bolingbroke Woodward, F.R.S.,  
 F.R.P., was born at London Aug 20, 1848  
 2<sup>nd</sup> Son of the late D.S.P. Woodward. Was  
 educated at the Priory School, Delington  
 under Mr. Biddlake, was Library & Museum  
 Assist<sup>t</sup> to the Geological Society London from  
 1864-67, when he joined the Staff of  
 the Geological Survey of England & Wales,  
 he was appointed Resident Geologist  
 in 1891, & District Surveyor in 1896.  
 He was elected a fellow of the Geological  
 Society in 1868, & of the Royal Society  
 in 1896. He was President of the Norwich  
 Geological Society 1879-80, & of the  
 Geologists Association 1893. In 1885  
 the Council of the Geological Society  
 awarded Mr. Woodward the Morrison  
 Fund, & in 1897, the Morrison Medal.  
 He is author of "The Geology of England  
 & Wales (1876-87), several Survey Memoirs  
 & numerous papers in the Quart. Journ.  
 Geol. Soc., Geological Magazine &c. &c.  
 appointed Assistant Director of  
 the Geological Survey of England  
 & Wales



89, MARLBOROUGH MANSIONS,  
 CANNON HILL, N.W.

12<sup>th</sup> Sept '05.

My dear Hunt

You have so excellent  
 a series of autographs &  
 biographies & portraits that  
 I hope you will permit me  
 to try & fill a few gaps,  
 with a rather miscellaneous  
 series - Some of them may  
 be useful if not wholly  
 ornamental!

With kindest  
 regards  
 Yours affectionately  
 Horace (H.W.)



28 Jermyn Street  
S.W.  
30th Oct 88.

My dear Uncle

I send you notices of  
2 new Memoirs, for the  
Geol. Mag. also an account  
of Reid's work on the Recent  
Flora of Britain. The last-  
named appears sufficiently  
important to deserve a somewhat  
lengthy notice - perhaps you  
may cry out, but I send the list  
as I copied it last night.

Prof. Marsh told me he had  
left a copy of his work on  
Toothed Birds for me, in your  
charge. Will you kindly take  
care of it until I call for it?

Hoping to see you & Aunt on  
Thursday I am Your affectionate  
nephew  
Horace B.W.

28 Jermyn St:  
S.W.  
9th Feb. 92.

My dear Uncle

Harry's Report for 1890  
(1891) just to hand. Can  
you give me reference to  
Olenellus Forresti mentioned  
on p. 17. If this is all  
right it is most interesting.  
Walcott says no Olenellus  
has been found in Australia.  
Perhaps you will say  
something at the Geol. Soc.  
Meeting?

Your affectionate  
nephew  
Horace B.W.



60, Hamilton Road,  
Highbury Park. N.  
22<sup>nd</sup> Nov. 91.

My dear Uncle

I return the Report  
of Robertson, but I find  
on referring to Harry's  
Annual General Report for  
1888-89, that he is not  
at all impressed with the  
value of the Coal-field.  
(p. 58). Hence it may be  
best for him to criticize the  
statements of Robertson - or  
perhaps to take no notice of  
them.

The Memoranda of John Gunn  
are interesting - I wish you  
had discovered them before!  
but with an accumulation

60, Hamilton Road,  
Highbury Park. N.  
10<sup>th</sup> Dec. 91.

My dear Uncle

Just a line to say  
that in the last No.  
of the 'Palaeontologia  
Indica' there is a <sup>final</sup> paper  
by Dr Waagen on the  
Permo-Carboniferous  
fauna of the Salt  
Range. He refers to  
the Australian Beds.  
Possibly the figures of  
fauna would help with  
Harry's Collection.  
What do you think of



4 Longfield Rd  
Palo Alto, W. S.  
257x1/18

My dear Uncle,  
Many Happy Returns  
of November 24th

This greeting should  
have reached you earlier  
but I have been  
troubled with the locking  
problem of a valve on  
the back of my hand.

which has somewhat  
deranged my dates  
& put me a day behind  
the fair.

Nevertheless if belated  
my greetings are some  
the less sincere.

With best love to  
the cousins & all  
greetings to yourself

Yr affl nephew

W. W. Woodcock



My dear

of Rev.  
a refe  
Annual  
1888-89

at all  
value  
(p. 58).  
best for  
statemen  
perhaps  
them.

The  
are in l  
had de  
but wi

the paper - but as it is  
only just out you may  
not have seen it.

John Hopekin has  
sent me a paper on  
Water-Supply with  
especial reference to  
Rickmansworth, &c. It  
confirms all we said  
in our Report.

J. F. Blake's paper at  
the Geol. Soc. last night  
was the driest I ever  
remember to have heard!  
Teall & Mass are quite  
of the same opinion.

A Conversation Room  
appears necessary - &  
I understand that a

Memorandum was sent in  
to the Council on the  
subject!

Yours affectionately  
Horeau B. W.

I trust you are quite  
well now - someone said  
you were not up to the  
Court Service dinner.







of pamphlets & papers  
one is likely at times  
to discover Treasures  
long forgotten.

I asked Sir Archibald  
again about Rock-Specimens  
& he said he would be  
happy to entertain any  
application - there was  
however one source of  
trouble - a certain Prof:<sup>r</sup>  
at the Royal College of Science  
once made a row when  
some duplicates had been  
sent away, & not sent  
to his own particular Department!

Love from all

Your affectionate nephews  
Richard & John



to Dr. H. C. ...  
10th Dec 91.

My dear Uncle

Just a line to say  
that in the last No.  
of the 'Palaeontological  
Journal' there is a paper  
by Dr. Waagen on the  
Permian-Carboniferous  
fauna of the West  
phalia. He refers to  
the Australian beds.  
Among the figures of  
fossils which he refers to  
Harry's collection  
which may give some of





[Extracted from the GEOLOGICAL MAGAZINE, Decade III. Vol. VIII.  
No. 319, p. 1, January, 1891.]

*Samuel Woodward  
Norwich*

#### A GEOLOGIST OF A CENTURY AGO:

SAMUEL WOODWARD OF NORWICH, Antiquary and Geologist.<sup>1</sup>

(With a Portrait.)

GEOLOGISTS are so accustomed to deal with vast periods of time, that a century may be deemed by them as equivalent to the moment-measure of the dial, or the sand-grains of the hour-glass.

Nevertheless a century, in human affairs, especially that just expiring, has for us a vastly wider significance, and although its passage may not have seen the birth, it has witnessed all the growth and development of Geological science, and a large proportion of that of her sisters also. It cannot be without interest, therefore, briefly to record in these pages the name of one who, although born a hundred years ago, with but scanty opportunities either of position or education to assist him, yet by sheer force of energy and perseverance, and attracted by a strong love of Nature, became a geologist of no mean merit, and left behind him a name honoured by those who knew him, and a record of work accomplished, worthy to fill a much longer life.

Samuel Woodward was born at Norwich, on the 3rd October, 1790. His grandfather, Simon Woodward, came from London to settle in Norwich, where he married and left two children, the younger of whom, William, born in 1762, married, in 1789, to Elizabeth Springall, and died in 1795, at the early age of 33 years. He left a widow and two children, the elder of whom was Samuel Woodward, the subject of the present Memoir. His father died before he was five years old, and after attending a day-school for a short time, he was placed under the care of a relative who was a shawl-weaver, then one of the staple manufactures of Norwich. So desirous was the boy to learn that he devoted every spare moment to study, and read with eagerness every book which came within his reach. At ten years of age we find him singing, as a

<sup>1</sup> Those who are interested in the story of a Norwich boy who became a geologist may read the fuller account, of which this is but an abstract, in the Transactions of the Norfolk and Norwich Naturalists' Society, vol. ii. pp. 563-593, 1879, by Horace B. Woodward, F.G.S. (grandson of Samuel Woodward), and author of the "Geology of England and Wales," one of the best text-books ever written. The portrait is reproduced by permission from an original sketch, in Indian ink, in the possession of his daughter, Mrs. T. G. Bayfield of Norwich, drawn from life by his eldest son, B. B. Woodward.—EDIT. GEOL. MAG.

Same day, at Lakenham Cottage, Mr. Samuel Woodward, aged 47 years. Mr. W. was the author of several valuable papers on antiquarian and geological subjects, of which he was a sedulous investigator, and was highly respected both for his acquisitions in science and his amiable and modest manners. 1836



*Sam Woodward*



Mr. Henry

If you will please  
observe I have intended  
to comply with your request  
you will therefore <sup>collect</sup> select  
the specimens agreeable  
to your list, the remainder  
will be of course surplus  
I could not conveniently  
keep them separate -

Hope you will receive  
them safe

Geological Society, Horn

Monday June 4<sup>th</sup> 1832

Dear Henry, I now write to give some account of  
myself as you will no doubt be desirous of knowing how  
I get on. I have had a most agreeable journey up as my  
first limited, my feet that I get little sleep. I went to  
Bathurst Quay, about 2 o'clock where I got some lunch  
He was sorry he could not sleep on, but sent his porter  
to take me to the New Museum, Covent Garden, stating that  
he would pay the Bill. I did not like these quarters, but  
advantageously allowed me to have my own way in sleeping  
at Old Change. He took me to the Museum Club House  
a most splendid place. He left me to dispose for the evening  
to where I wished to go at 6 o'clock. On Thursday, I dined  
with Mr. H. J. and Mr. J. B. Fry at Mr. Moore's house & then Mr. J.  
took me in his carriage to the Antiquarian & Royal Socy  
Meeting. Mr. J. B. Fry having given me an invitation to his  
lecture. I went to the lecture. Collier where I saw the great  
men in the Geological line. Mr. J. B. Fry introduced me  
to his Conversations. I wrote a note to request Mr. J. B. Fry  
to meet me to dine with Mr. Goodhall of the India House  
about the evening. Saturday went again to the British Museum  
afterwards, called upon Mr. J. & wandered to Old Change by  
2 o'clock



*the GEOLOGICAL MAGAZINE, Decade III. Vol. VIII.  
No. 319, p. 1, January, 1891.]*

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Wahl, C. P. 1993.

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[illegible]

I started at 9 o'clock for Mr. Richd. Gurneys about  
 10 miles. I found him in bed with the gout, but he  
 gave me coffee with him for 11 o'clock went to St. Georges  
 Church Hanover Square. afterwards returned to Mr. G's until  
 2 o'clock when I went to the Parks & Kensington road,  
 I wandered about until I returned to dine with Mr.  
 G. at 4 1/2 past 7 o'clock - at 1/2 past 9 Mr. G. took me in his  
 carriage to the Churchman's Hall about 10 past 11 we left, Mr. G.  
 got out at the Travellers Club House I went on in the carriage  
 & sat down in St. Pauls Church yard where I alighted.  
 the clock struck 12. Monday after breakfast went

The Colonial Society's sketch was too soon thrown  
 out of the Exhibition & Pictures. saw Dr Buckland.  
 Colonial Society Rooms. at 4 o'clock went to dinner with  
 Mr. De Meade, & Dr. Hodgkin. & a lot

[illegible]



Am. Harb.



SAMUEL WOODWARD OF NORWICH, Antiquary and Geologist.<sup>1</sup>

(With a Portrait.)

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[illegible]

Same  
Woodw  
of sev  
geologi  
investi  
acquisi  
mann

Sunday. Started at 9 o'clock for the High  
 5 miles distant. Found him in bed and  
 got some coffee with him for 11 o'clock went  
 Church Hanover Square. afterwards returned  
 to part 2 o'clock when I went to the Post  
 when I arrived about twelve I went to  
 Mrs. at the part, 7 o'clock - at the part of Mr.  
 Leverage to the Churchman I left about 11 o'clock  
 got out at the Travellers Club House found  
 to me all down in St Pauls Church yard  
 as the Clock struck 12. Monday, 1st Feb  
 to the Geological Society I sketched was to  
 walked in to the Exhibition of Pictures and  
 at the Geological Socys Rooms. at 4 o'clock  
 Mr Bro Martin & De Meekins. I afterwards  
 went to a Cigar Divan in the Strand  
 where we were conversing for the first time to

*Hesperia*. 86. 11. 1907. p. 1.



11-11-11

1871



chorister, on Sundays, in St. George's Colegate, the church of the parish in which he lived with his mother. Here he was introduced to Mr. Alderman Herring, a wealthy manufacturer, and at one time Mayor of Norwich, who kindly took the lad into his warehouse, and having first placed him in a school for a short time, he afterwards bound him apprentice to his own business, that of weaving Camlets and Bombazines. Here he gradually rose to a position of trust and responsibility; nor did he, during this period of twelve years, neglect any opportunity of improving his mind, eagerly availing himself of the kind permission given him by Mr. Herring to use his library for study whenever he had leisure to do so. His pursuits had already assumed the form they retained in later life. He collected and cultivated flowers, and his room was adorned with curios and shells which he bought at the old-curiosity shops in the city.

One of the first geological puzzles he endeavoured to solve was a mass of flint containing *Ananchytes*, which he had noticed on a cottage mantel-piece, where it was kept, well black-leaded, as an ornament. And one of the books which first excited his attention, and perhaps directed it to antiquarian and geological studies, was Verstegan's "Restitution of Decayed Intelligence, in Antiquities concerning the most noble and renowned English Nation," a curious work, of which the first edition was published in 1605, and in which the former connection between England and France was then advocated.

He not only used every opportunity of adding to his own store of knowledge, but was ready to help others, for he himself taught in both an evening and a Sunday school. It was whilst thus engaged that he became acquainted with Joseph John Gurney, who, throughout his life, proved a true friend to him.

In 1812 Mr. Herring gave up his manufactory owing to the general depression of business, but in 1814 Samuel Woodward obtained a clerkship in the Norwich Union Fire Office, which he held for six years, when he entered the Banking-house of Messrs. Gurneys' & Co., where he remained until his death.

In 1815 Samuel Woodward married Elizabeth, daughter of Bernard Bolingbroke, Esq., of East Dereham, Norfolk, and niece of Nathaniel Bolingbroke, Esq., formerly Mayor of Norwich, and of Sir John Yallop, Sheriff of that city. This union resulted in a family of six sons and three daughters; but one son and one daughter died in their infancy.

After 1820, he was brought prominently under the notice of Hudson Gurney, Esq., M.P., of Keswick, and Dawson Turner, Esq., of Yarmouth, both Fellows of the Royal Society, and partners in Gurney's Bank. It was to their friendly aid and encouragement that he largely owed the opportunities he enjoyed for the prosecution of his favourite studies, and also the success which attended his labours. To them he was particularly indebted for the loan of books, and for aid in his publications.

The works of Parkinson, William Smith, and, later on, those of

Conybeare and Phillips, became his text-books; while the writings of Richard Taylor gave an impetus to his local researches. Taylor's earliest paper was published in 1822,<sup>1</sup> and in the following year Samuel Woodward made his first geological tour of the coast, but without obtaining any specimens of fossil bones. In 1824 Mr. Robert Lacy sent him two molars of Elephant from Mundesley, and soon after he made another excursion from Yarmouth to Cromer along the beach, and obtained some good specimens; and might, he says, have obtained some very large and fine bones, but for the difficulty of conveyance.

From this year and up to the time of his death he maintained a considerable correspondence with many of the leading naturalists and geologists of the day. The letters he received, together with many miscellaneous notes and memoranda, are preserved in eleven quarto volumes, now in the possession of his youngest son, Dr. Henry Woodward, F.R.S. During this period of fourteen years he seems to have kept every scientific letter he received, and it must be remembered that in those days letter-writing was, as a rule, far more elaborate and careful than it is now. Many of these letters are only of value as autographs, and merely relate to inquiries as to coins, rings, seals, merchants-marks, ancient buildings, and other antiquarian matters mostly of local interest. Others bear upon geological topics: amongst them we find letters from William Bean (of Scarborough), C. W. Peach, R. C. Taylor, Hudson Gurney, Dawson Turner, the Rev. James Layton (of Catfield); Thomas Amyot (Treasurer of the Society of Antiquaries), J. W. Robberds, Miss Etheldred Benett,<sup>2</sup> Goddard Johnson, H. Denny (of Leeds), Daniel Stock (of Bungay), Dr. Buckland, Prof. Sedgwick, Dr. Mantell, G. B. Baker (of Bungay), Dr. Charles König (British Museum), Sir R. I. Murchison, Prof. John Phillips, Dr. James Mitchell, Wm. Gilbertson (of Preston), the Rev. Thomas Image (of Whelpstead), the Rev. George Munford, the Rev. W. Foulger. There are also short notes from Fitton, De la Beche, Lyell, Agassiz, Sir Philip Egerton, Elizabeth Fry, Harriet Martineau, and Charles Waterton.

Samuel Woodward's first letter to Mr. Caleb Rose, F.G.S., of Swaffham, was written in May, 1826, and from that date there was an uninterrupted correspondence, mostly on geological topics, until the death of the former in 1838. The enthusiasm of the two friends seems to have been very great; every discovery of a new fossil was at once communicated, while books and specimens were borrowed and exchanged, in a way that speaks well for the prosecution of science in those days.

In 1824 he made his first communication to one of the learned Societies of London. It consisted of a series of maps and plans of Ancient Norfolk, which he submitted to the Society of Antiquaries through Mr. Hudson Gurney. One of these maps illustrated the Roman period, showing the several stations and roads constructed

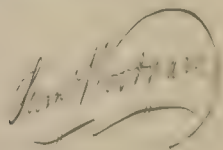
<sup>1</sup> "Fossil Bones on the Coast of East Norfolk," Phil. Mag. vol. lx. p. 132, 1822.

<sup>2</sup> Well known to geologists as authoress of "A Catalogue of the Organic Remains of the County of Wilts," 1831; (of Norton House Warminster, Wilts).



Mr. Henry

If you will please  
 observe I have intended  
 to comply with your <sup>request</sup>  
 you were therefore select  
 the specimens agreeable  
 to your list the remainder  
 will be of course sufficient  
 I could not conveniently  
 keep them separate





by the Romans; another pictured the great estuary which it was considered had spread itself as far as *Venta Icenorum* (Norwich) before the sands on which Yarmouth was built were left uncovered by the sea. This latter map was based upon the ancient 'Hutch Map,' belonging to the Corporation of Yarmouth, with, however, many inaccuracies as to places and distances corrected.

In 1825 he had already nearly completed two works in MS., one entitled "Sketch of the Norwich Crag Deposit, with a Descriptive Catalogue of its Fossils," a quarto volume containing twenty plates with outline figures of the species; the other, entitled, "Remarks on the Geology of the County of Norfolk," 4to. illustrated with coloured figures of the fossils and coloured sections of the strata. Both works, however, were commenced and carried out on a plan far too ambitious and expensive for publication. The projected "Geology of Norfolk" was to comprise 24 plates, and nearly 1000 figures; he had already drawn about 300, and others were subsequently added; these remain as he left them. The substance of his observations, and figures of many of the species were, however, published in his "Geology of Norfolk," in 1833. The original drawings of fossils are extremely accurate and very carefully executed and bespeak considerable native talent. In 1826 he was elected a member of the Committee of the Norfolk and Norwich Museum (established in 1824), an office which he held at intervals during the subsequent years of his life. In 1827 he exhibited before the Society of Antiquaries, in London, some antiquities found at Coltishall, which he conjectured to have been a landing-place to the Romans when navigating the River Bure on their way to Bampton or Burgh-by-Aylsham. Later in the year he was engaged with Mr. W. C. Ewing, in exploring the Barrows at Eaton Heath. The Bronze Celts and a perfect metal mould obtained there, were exhibited at the Society of Antiquaries, Dec. 6, 1827 (see *Archæologia*, vol. xxii. p. 424, 1829). On the 5th Feb. 1828, he was elected an Honorary Member of the Yorkshire Philosophical Society, at the suggestion of John Phillips, then Curator of the York Museum, with whom he frequently corresponded.

In 1828, in a letter to Dr. Fitton, F.R.S., President of the Geological Society of London (read 2nd January, 1829), he records the occurrence of Crag at Cromer, and westward at Coltishall, and around Norwich. To the eastward, instead of marine shells, he noticed that there occurred a layer of ligneous and mammalian remains reposing on the Chalk. In this, immense numbers of bones and teeth of the Elephant, Horse, Deer, etc., mingled with trunks, branches, and leaves of trees, had been found, extending even to the distance of twenty miles out to sea, and on the Knoll sands, etc. (*Proc. Geol. Soc.* 1829, vol. i. p. 93). In 1829, he communicated a short sketch of the geology of the county to the "Norfolk Tour," in which he states that in what was subsequently termed the "Forest Bed" there are found a surprising number of vegetable and animal remains, as trunks, branches, leaves, and stumps of trees (*in situ*), etc. He had two years previously (1827) recorded that

in his own collection from the coast were remains of [Elephant, Rhinoceros, Hippopotamus, Horse, Bos, Irish Deer, and three other species of Deer.<sup>1</sup> Many of these were obtained from the oyster-bank off Hasboro', which he regarded as an extension of the blue clay of the cliff. He also observed that "the antlers of the deer are broken into fragments of from six to eight inches in length, and three-fourths of them had been shed, indicating that they were at present not far removed from their original locality, and appeared to confirm the tradition that this part of the sea, called 'the Holmes,' was originally a forest."

In a second communication to Dr. Fitton (23rd March, 1829), he pointed out that "Wherever a section has been made of the Crag of Norwich, with one exception, there has been found a layer of nodular flints from twelve to eighteen inches in thickness reposing on the Chalk. Reasoning from analogy he concluded that the Chalk in these instances had been subject to the action of currents of water previous to the deposition of the (Crag) shells; as the appearance of the flints perfectly agrees with the like phenomena going on at Foulness Point, Cromer, and at Trimmingham Beach, on our coast; . . . The Chalk under these flints is perforated as if by *Pholades*." These notes, although not published at the time, appeared later on in the "Geology of Norfolk."

In April, 1829, he sent to Mr. Amyot some "Fragments illustrating the History of Norwich Castle;" and in May, some "Observations on the Round Towers of Norfolk," for the Society of Antiquaries. At the request of Mr. Daniel Gurney, he directed his attention, in 1825, to the collecting and publishing of Merchants' Marks, and later on he exhibited six examples referred to dates between 1409 and 1608, which he had drawn on stone ready for publication.

For some time past his "Synoptical Table of British Organic Remains" had been in preparation, entailing much research and correspondence; it appeared on 1st July, 1830, the list of subscribers numbering 155. This work, naturally, has now been out of date long ago, having been superseded in 1843 by the "Catalogue of British Fossils," by Professor Morris, the second edition of which appeared in 1854, now 36 years since. Happily the Vertebrata have been brought up to date by Messrs. Arthur Smith Woodward and C. Davies Sherborn, but the Invertebrata have only been partially listed in separate works, so that much remains to be done in order to complete our Catalogue of British Fossils.

In 1832, Samuel Woodward visited Mr. Hudson Gurney in London, and went the round of the principal learned Societies with him; making the personal acquaintance of a number of eminent geologists and antiquaries whom he had previously known by correspondence. He also attended a conversazione at Mr. (afterwards Sir Roderick) Murchison's house, where he met Dr. Buckland and Mr. (afterwards Sir Charles) Lyell, and others.

The year 1833 saw the publication, on the 1st of May, of his "Outlines of the Geology of Norfolk," one of the first works

<sup>1</sup> See Rev. J. Layton, *Edinb. Journ. of Science*, vol. vi. p. 199.



If you will please  
 observe I have intended  
 to comply with your request  
 you were therefore <sup>collected</sup> select  
 the specimens agreeable  
 to your list the remainder  
 will be of course surplus  
 I could not conveniently  
 keep them separate  
 I hope you will excuse  
 the defect

Dec. 11



*John H. Johnson*



describing the geology of any English county, and one which in its plan and scope has not at present been superseded. Much necessarily requires revision in the classification of both the strata and their included fossils; but the work has retained its place as a standard book of reference for Norfolk. He attended the meeting of the British Association at Cambridge in 1833, in company with his friend Mr. Caleb Rose, of Swaffham, but they do not appear to have been much gratified with their visit; for, as his friend afterwards remarked in a letter, "authorities were ponderous," and we were only "insignificant labourers."

In this year Professor Sedgwick was appointed a Canon of Norwich Cathedral, and his advent was indeed a happiness to the Norfolk geologist. Dr. Mantell, writing from Brighton (December 14th, 1834), says: "Believe me you are most fortunate to have such a man near you; it will more than compensate for your distance from all the other savants in England. I think Mr. Sedgwick by far the most talented and splendid man we can boast of. I only wish we had a Cathedral here, and he had a stall in it."

During the Professor's residence in Norwich, they not unfrequently met, Sedgwick often inviting Woodward to the Close, and coming occasionally to spend an evening at Grove Cottage, to look over the treasures in his geological collection.

In February, 1835, he delivered a lecture on "The Antediluvian Topography of Norfolk" at an evening conversazione of the Norfolk and Norwich Museum.

About this period his health seems to have been very feeble; he was suffering from a most trying complaint, diabetes. At times he had to relinquish his duties at the Bank, and seek in travel and change of scene, a temporary alleviation from his indisposition. Thus, on the 13th July, 1835, he went by packet to Yarmouth, and thence to Hull, where he inspected the Hull Natural History Museum with Mr. W. H. Dykes, and Mr. John Edward Lee, the Curator of the Museum. He next proceeded to Beverley, and afterwards to Scarborough, where he met Mr. W. Bean, Dr. William Smith, and Mr. Williamson, and was shown the geology of the coast by William Smith. Thence to York to visit John Phillips and the York Museum; afterwards to Leeds, to the Museum and to visit Mr. H. Denny. Then on to Preston to stay with Mr. Gilbertson, the well-known collector of Mountain Limestone fossils.<sup>1</sup> Later on he returned via Liverpool, and made his first railway journey from that city to Manchester, thence to Nottingham and so through Derbyshire by Buxton and Matlock to Derby and back to Nottingham, then on to Newark and so home via Sleaford, Lynn, and Dereham to Norwich, a truly formidable journey in those days.

In 1836 we find him again in London, seeking health, though mostly visiting amongst friends and attending the meetings of scientific societies.

In September, the Marquis of Northampton, who was much interested in geology, visited him at Grove Cottage, Lakenham, in

<sup>1</sup> Whose collection, like William Smith's, is now preserved in the British Museum (Natural History).

order to see his collections; also Mr. Joseph Prestwich, jun. (afterwards Professor Prestwich, F.R.S.) who, paid his first visit to the Thorpe Crag-pits under Mr. Woodward's guidance, and there obtained a fine molar of *Elephas meridionalis*, now in the Norwich Museum.

Although his bodily powers failed him, his mental energies never ceased to display their activity, and even at the last he occupied himself with numerous archæological subjects, and with the preparation of a new work, "Theoretical View of the Geology of the Norfolk Coast," a MS. which was never published.

He was also engaged in the preparation of his "History and Antiquities of Norwich Castle," edited, after his death by his eldest son, B. B. Woodward, F.S.A., in 1847; and in gathering materials for the "Norfolk Topographer's Manual," revised, augmented, and edited by W. C. Ewing, and published in 1842. Nothing could exceed the sympathy and kindness shown to Mr. Woodward during his last illness by all his friends, but his malady baffled medical skill, and he died on the 14th January, 1838, in his 48th year.

Thus ended a life of devotion to science, a life whose published works form but a partial memorial of the indefatigable industry of their author. "I believe," writes Prof. Sedgwick, "it is not too much to say that his life has been cut short by his devotion to science, and by his continuing (after the laborious duties of the day) to spend hours in study, which ought to have been given to rest." "His memory," writes his eldest son, "remains an object of reverence to his children, whose paths, by his patience and toil, have been made so easy and pleasant compared with his own, and of unfeigned respect to all who were acquainted with his character and his acquirements."

#### LIST OF WORKS BY SAMUEL WOODWARD OF NORWICH.

- 1829.—1. Geology of Norfolk. In "A General History of the County of Norfolk intended to convey all the Information of a Norfolk Tour." [By J. Chambers.] 2 vols. 8vo. 1829.
2. A Letter [to Dr. Fitton] respecting some remarkable fossil remains found near Cromer, in Norfolk. [Read Jan. 2nd.] Proc. Geol. Soc. vol. i. pp. 93, 94.
3. Musical Snails. Mag. Nat. Hist. vol. ii. p. 244.
4. [Notes on some Antiquities found in Norfolk.] Archæologia, vol. xxii. pp. 422-424.
- 1830.—5. On the Hydra, or Freshwater Polypus. Mag. Nat. Hist. vol. iii. p. 348.
6. A Synoptical Table of British Organic Remains: in which all the edited British Fossils are systematically and stratigraphically arranged in accordance with the views of the Geologists of the present day; and a reference given to their localities, strata, and engraved figures. 8vo. and 4to. London and Norwich.
- 1831.—7. Observations on the Round Church Towers of Norfolk; and on the materials employed in constructing the early religious buildings in that County. [Read May, 1829.] Archæologia, vol. xxiii. pp. 7-9.
8. A Descriptive Outline of the Roman Remains in Norfolk, accompanied by a Map of the County. [Read Dec. 1830.] Ibid. pp. 358-373.
9. A Copy of an Ancient Plan of the Chalk Vaults near St. Giles' Gates, Norwich: made by John Bond, 1571; exhibited, with notes, by Mr. Samuel Woodward. Ibid. pp. 411-412.
10. Natural History Collection. Mag. Nat. Hist. vol. iv. p. 177.
11. Luminosity of the Sea. Ibid. p. 284.
12. Ætites or Eagle Stones. Ibid. p. 468.



Same day, at Lakewood C. 1893.  
Woodward, aged 42 years. Mr. W.  
of several valuable papers on  
geological subjects, of which  
the following are the titles:  
1. The geology of the  
nationals.



*W. Woodward*

Mr. Lewis

It will please  
obvise I have intended  
to comply with your request  
you were therefore select  
the specimens agreeably  
to your list. The remainder  
will be of course sufficient  
I could not conveniently  
keep them separate.

Yours very truly  
W. Woodward

Dear Sir

I have the pleasure  
to inform you that  
the specimens of  
the same are now  
in the hands of  
the collector and  
will be forwarded  
to you as soon as  
possible.



- 1832.—13. *Trichosoma lucorum*, the Pupa and Imago of, a Habitat of, and the destruction of by one of the Ichneumonidae. Mag. Nat. Hist. vol. v. pp. 85, 86.  
 14. Luminousness of the Sea. *Ibid.* vol. v. pp. 302, 303.  
 15. Origin of the Crag Stratum of Norfolk. *Ibid.* vol. v. pp. 544, 545.  
 16. Sir John Byerley's Theory of verifying Dates by calculations on the Precession of the Equinoxes. *Ibid.* vol. v. p. 761.  
 1833.—17. An Outline of the Geology of Norfolk. 4to. and 8vo. Norwich.  
 18. The Natterjack in Norwich. Mag. Nat. Hist. vol. vi. p. 457.  
 19. Remarkable Meteor seen from Norwich, Dec. 19th, 1832. *Ibid.* p. 463. [Also Letter in 'East Anglian,' 1832, on this subject.]  
 1834.—20. Drawing of Two Steelyard Weights, one of which was found at Catton; exhibited by Mr. Samuel Woodward. [Communicated Feb. 2nd, 1832.] *Archæologia*, vol. xxv. p. 589.  
 21. An Account of certain Judicial Proceedings at Norwich, at the commencement of the Usurpation, copied from a Manuscript written about 1675, in the possession of Edward Steward, Esq., of Norwich. Communicated by Mr. Samuel Woodward. [April 12th, 1832.] *Ibid.* pp. 591-594.  
 22. Sketch of an Ancient Sword, found in the Bed of the River Yare, at Thorpe. [Communicated Dec. 12th, 1833.] *Ibid.* pp. 618, 619.  
 1835.—23. Some Remarks upon the Crag Formation of Norfolk and Suffolk. Phil. Mag. series 3, vol. vii. p. 353.  
 1836.—24. On the Crag Formation; in answer to Mr. Charlesworth's "Reply." *Ibid.* vol. viii. p. 138.  
 25. An Account of some Discoveries made in excavating the Foundations of Wymondham Abbey, with a Plan and Description of the Religious Establishment. [Communicated December, 1834.] *Archæologia*, vol. xxvi. pp. 287-299. [Also Letter on this subject to Editor of "Norwich Mercury," dated 30th December, 1833.]  
 26. Modern Conglomerate at Cromer. Mag. Nat. Hist. vol. ix. p. 47.  
 27. Evidence in argument that remains of *Mastodon giganteus* and *Mastodon latidens* have been found in the Tertiary Beds of Norfolk. *Ibid.* p. 151.  
 1838.—28. Ancient Swords, found near Norwich. [Communicated November 16th, 1837.] *Archæologia*, vol. xxvii. pp. 435-437.  
 1842.—29. The Norfolk Topographer's Manual: being a Catalogue of the Books and Engravings hitherto published in relation to the County. The whole revised and augmented by W. C. Ewing. 8vo. London.  
 1847.—30. The History and Antiquities of Norwich Castle. Edited by his Son [B. B. Woodward]. 4to. London and Norwich.

Dear Madam,  
 My  
 daughter is to be con-  
 firmed next week & as  
 she has no special friends  
 you do me the favour of  
 allowing her to accompany  
 your young ladies?

I am Dear Madam

Yours respectfully

Sam Woodward

Letter from letter

Saturday 18th



Same day, at Lakewood City  
Woodward, aged 47 years. Mr. W.  
of several valuable papers & documents  
of great value to the collection  
of the history of the country  
of the State of Ohio.



Saml Woodward

Mr Lewis

It you will please  
observe I have intended  
to comply with your request  
you will therefore select  
the specimens agreeable  
to your list. the remainder  
will be of course sufficient  
I could not conveniently  
keep them separate.

Hope you will receive  
them safe

L. H. H.

Dear Sir

I have the pleasure  
to inform you that  
the collection of  
specimens of the  
history of the country  
of the State of Ohio  
is now complete  
and the same  
is now in the hands  
of the State of Ohio.





Samuel Pickworth Woodward  
F.G.S. Ph.D.,  
Assistant in the Geological  
Department of the British  
Museum. 2<sup>nd</sup> son of Samuel  
Woodward of Norwich.  
Born in Norwich Sep. 17<sup>th</sup> 1821.  
died at Herne Bay. July 11<sup>th</sup> 1865.  
When only 10 years of age he as-  
sisted in publishing an account  
of the *Trichiosoma lucorum* in  
London's "Magazine of Natural  
History." He was Prof. of Botany  
History at the Royal Agricultural  
College at Cirencester 1845. He was  
one of the founders of the Cottis-  
-wood Naturalists Fieldclub.  
He was Examiner for the Council  
of Military Education as well as  
Examiner in Geology in the Uni-  
-versity of London.  
He was a constant contributor to  
Scientific & Literary periodicals, &  
published in the years 1851-1856  
his "Manual of Recent & Fossil Shells."

My dear Sir

I called to ask if you  
could arrange to take our intended  
ramble, next Saturday - as my  
time is very limited - Suppos<sup>n</sup>  
you had no vacation I have left  
one that I may have only one  
to bring when I come -  
My sister arrived last Tuesday  
I brought some wild flowers  
from Arminghall wood by  
Norwich - I put a few here &  
give the rest to some of friends -  
I also put a volume of my  
brother's notes, as I wished you



6. Grafton Place—  
March 18/61

Dear Bernard

Will you come & see me  
next Friday even? ? Tea at 6  
o'clock. I should like to ask

!—Carrothers the new Botanist—  
(not very new — but he hasn't been  
to see me yet) —

Yrs truly

P. P. Woodward

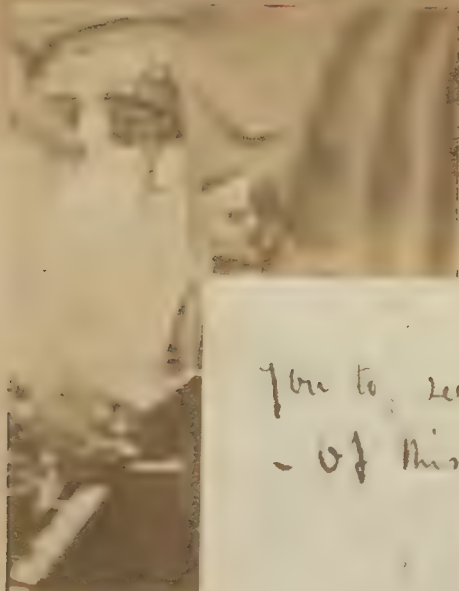
P. P. Woodward Esq

Athenaeum - May 16 - 1840 - No. 656.

We learn, that among other travellers lately  
arrived in London, is Mr Russeger who  
on account of his Pascha of Egypt to Farogh,  
& to whom we are indebted for a barometrical  
observation on the remarkable depression of  
the dead Sea, which he states at upwards  
of 1,300 feet below the Mediterranean.

In the previous Number is a sketch of  
the life of Mohammed Aly - in wh. it is  
stated that Dr Russeger had led him to  
believe the existence of inexhaustible mines  
of gold - but having been formerly duped  
by like representations (one having recd.  
a large consignment of glittering pyrites  
obtained at great expense - he resolved  
tho' at a most important crisis of his affairs  
(Oct. 1838) to visit the spot himself;  
& after his journey of 1,600 miles - found  
that the vaunted gold-mines (wh. Cailland





You to see our mode of journal  
- of this more hereafter -

Yours sincerely

Sam. Pees

Samuel Pees  
F.G.S. Ph.D.,  
Assistant in  
Department  
Museum.

Woodward of  
Born in Horn  
died at Horn  
when only 10  
- listed in Index  
of the Triche  
London's "May  
History." He  
History at the  
College at Cire.  
one of the fo  
- wold Natura  
He was Exam  
of Military

Examiner in Geology in the  
- society of London.  
He was a constant contributor to  
scientific & literary periodicals, &  
published in the years 1851-1856  
his "Manual of Recent & Fossil Shells"



bad adequately described) - offered nothing  
like the treasure he had dreamt of.

I have made this mem: thinking it  
might interest you - or rather add interest  
to Rufus's autograph

May 16<sup>th</sup>

SPW.

W. St. John & Co. N.Y.C.  
to the L.



Nov<sup>r</sup> 1838

My dear friend

Since my arrival in Town  
some circumstance or other has continually prevented me  
from writing to you; I have been unsettled, disappointed  
(out of spirit), & even now fear I shall make but a bad  
thing therefore will not spoil it at the outset by apologizing.

You must probably see everything. I have in the way of six  
especially as after the novelty wore off I began once more to go  
green fields & trees to "mysticisms & tempests". But I am  
in something. I will now the ~~more~~ <sup>rather</sup> risk of letting you  
you have seen before. moreover knowing how ~~exactly~~ <sup>exactly</sup> you  
Poetry you are, I can fill up the sheet with some borrowed  
fusion in case of a thick & trust to your friendship for then

I have taken several trips to Greenwich & am much deluged  
with everything about it. The scenery is splendid, especially  
the Thames & shipping from the observatory, with the  
grandeur of the Great Metropolis for a back ground. Instead  
of hearing "Yards" as I intended my attention has always  
directed to the scenery, after gazing day by day upon "smoke  
ricks, mortar & chimneys" - the chief materials of scenes  
right of. Milton's Chaos - my eye would naturally dwell on  
delight upon hill & dale, avenues of trees, vistas through  
"arched walks of twilight groves" & shady lanes. And so  
Greenwich is as well adapted as a remote rural district.

On the Coronation day we renounced "Pompey" & went  
for a walk to Harrow Cemetery - there was nothing  
about the amateurs but a "Jimpler" - may revel  
every where; & he who does not prefer the flower to

British Museum

Sept. 8<sup>th</sup> 1837.

Sir, I am greatly obliged by  
your kindness in offering to send  
me such an interesting creature  
as the living Amphibia.

I should certainly much like to  
see it, if you have any friend  
coming to Town, who would take  
charge of the foreigner.

If it should die of its accord - or  
by accident, I shall be glad to examine  
it remains - but it would be  
murderous to kill it after coming  
so far & <sup>in safety</sup> I will send it to the  
aquarium of the Zoological Garden  
where I have seen by sketches & so  
as I have but a small glass  
jar - of weeds here -



My dear Lucie

This sketch of Norwich Castle  
 The Gate is so pretty that lest it should  
 escape your notice I send a copy. We lived  
 once in the "Precincts" my younger days  
 were spent under the shadow of the Whitehall  
 pile - I have been looking out for any of



Nov 1838

some circumstances  
from writing &  
out of spirit,  
I therefore will

You have for  
especially as after  
your friends &  
say something,  
you have seen beg  
Petry you are,  
confusion in case

I have taken  
with everything  
the Thames &  
grounded of to  
at hearing "Ya  
directed to the  
riches, more than  
right of. Milton  
Delight upon to  
riched walks of  
a remark is as

On the (or  
for a walk  
chant the  
ever, where

I can scarcely promise to send  
you anything of equal interest  
in exchange; as this I have  
a small collection of the genera  
of shells. Scarcely obtain an  
addition to it except in the  
way of minute genera - e.g.  
I send you an example of  
the genus *Diplommatina* from the  
Himalaya, which requires a glass  
to be seen. I have two or three  
Jamaica shells lying by me for the  
purpose of showing, precisely what  
are the things I want to get alive  
(or in spirit) from the West Indies.

Only yesterday I had a letter from  
Mr. Wilton of Boston telling me that  
"a Bristol gentleman" had sent him

but a "simpler" may reveal  
he who does not prefer the flower

a living *Bulinus* of an *Ampullaria*  
from Trinidad - The *Bulinus*  
has died; but the *Amp.* he offered  
to send me, to see, not to keep.

If Mr. Wilton has received them  
from you he will doubtless have  
told you how much he wants  
certain other West Indian shell fish  
in spirit - viz *Conus* - *Strombus*,  
*Tectarius* - *Volva* - *Oliva* - &c.

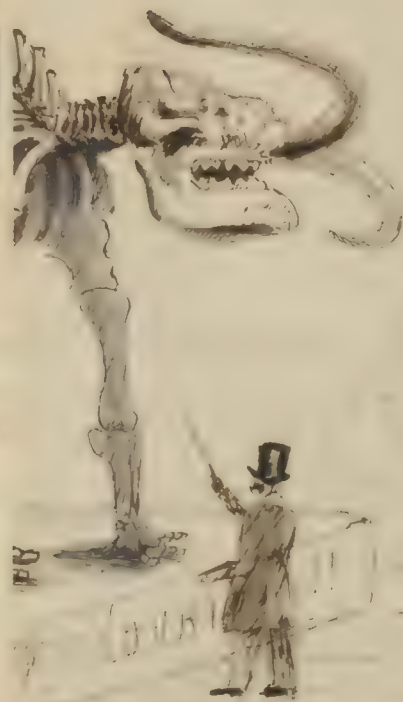
Since last summer (when  
I spent a week at Mr. Wilton's home)  
I have received & put up a misnomer  
object, <sup>the largest sp.</sup> about 100 species of *Lingula*  
shell fish but I still want a  
great number of the type, which  
are only common in the tropics.

Who will succeed Mr. Etheridge at  
the Bristol Museum?

Yours obly J. P. Woodward  
As Over &



THE FORTRESS GATE



My dear Lucie

Nov. 2, 1891 -  
23 Upper Madison St.

This sketch of Norwich Castle  
The Gates is so pretty that lest it should  
escape your notice I send a copy. We lived  
once in the "Precincts" my younger days  
were spent under the shadow of the Whitehall  
pile - I have been looking out for any of

and then at the



He was found

Since  
your circumstance or other has a  
been waiting to you. I have be-  
come out of spirit, & even now fear  
& therefore will not spoil it - a

You have probably seen everything  
especially as after the novelty worn  
green fields & trees to inexpressible  
say something, & will see the  
you have seen before; moreover, to  
Pety you are. I can feel up the  
fusion in case of a thick & be

I have taken several trips to (C)  
with everything about it - The  
the Thames & shipping from the  
grandeur of the Great Metropolis  
of "hearing" "Yards" as I intended  
directed to the scenery, after gazing  
ricks, masonry & chimney-pots the  
right of Milton's chaos. My eye  
Delight upon hill & dale, avenue  
"riched walks of twilight groves"  
Greenwich is as well adapted as

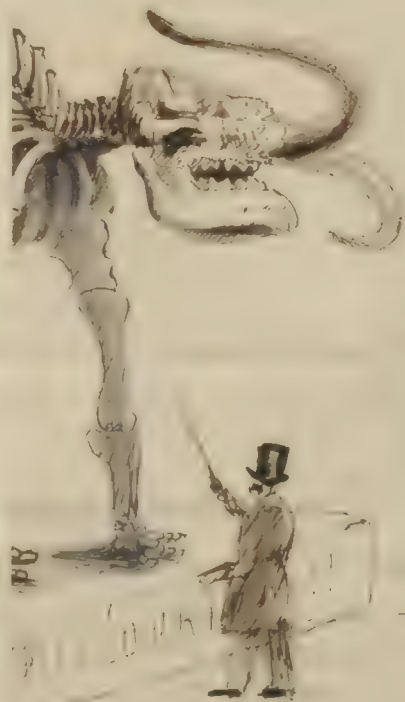
On the Coronation day we  
for a walk to Harrow Corner  
about the amateur but a  
very, where, & he who does

our English Cathedrals in this style -  
York - Lincoln & Chichester - especially  
the first one beautiful Iworth having  
as prints above. Some of the  
sketches too, such as Blackgang Chine  
& other in the neighbourhood of  
Plymouth & appear to do more

justice to the splendid journey they portray  
than any of the "better prints".

Enclosed is a card of our Meetings -  
Mr Sedgwick opens the session tomorrow  
evening - pray come - Henry Ferguson or  
some one - we shall be sure of won't  
to them -

The other card is my first specimen of  
"composing" in type - rather an impudent  
advertisement - but as I only wanted  
to learn the technicalities of the black art  
it was the best I could think of for  
the hint I have found useful to some  
already. Yours very truly  
Wm. W. Woodward



hesitates at this!



...circumstance in other times  
 from writing to you. I have to  
 ...now fear  
 therefore will not spoil it - a

You have probably seen every thing  
 especially as after the novelty of the  
 green fields & trees to 'messuages'  
 as something. I will run the  
 you have seen before; moreover. to  
 But you are, I can fill up the  
 confusion in case of a thick & big

"Have taken several trips to G.  
 with everything about it - The  
 the houses & shipping from the  
 grandeur of the Great Metropolis  
 of hearing "Yards" as I intended  
 directed to the house, after going  
 bricks, mortar & chimney pots - the  
 sight of Milton's chaos. my eye  
 Delight upon hill & dale, avenue  
 "riched walks of twilight groves"  
 Greenwich is as well adapted as

On the Coronation day we  
 for a walk to Harrow Cerners  
 about the amateur but a  
 every where; & he who does

on

yo

th

a

g.

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1

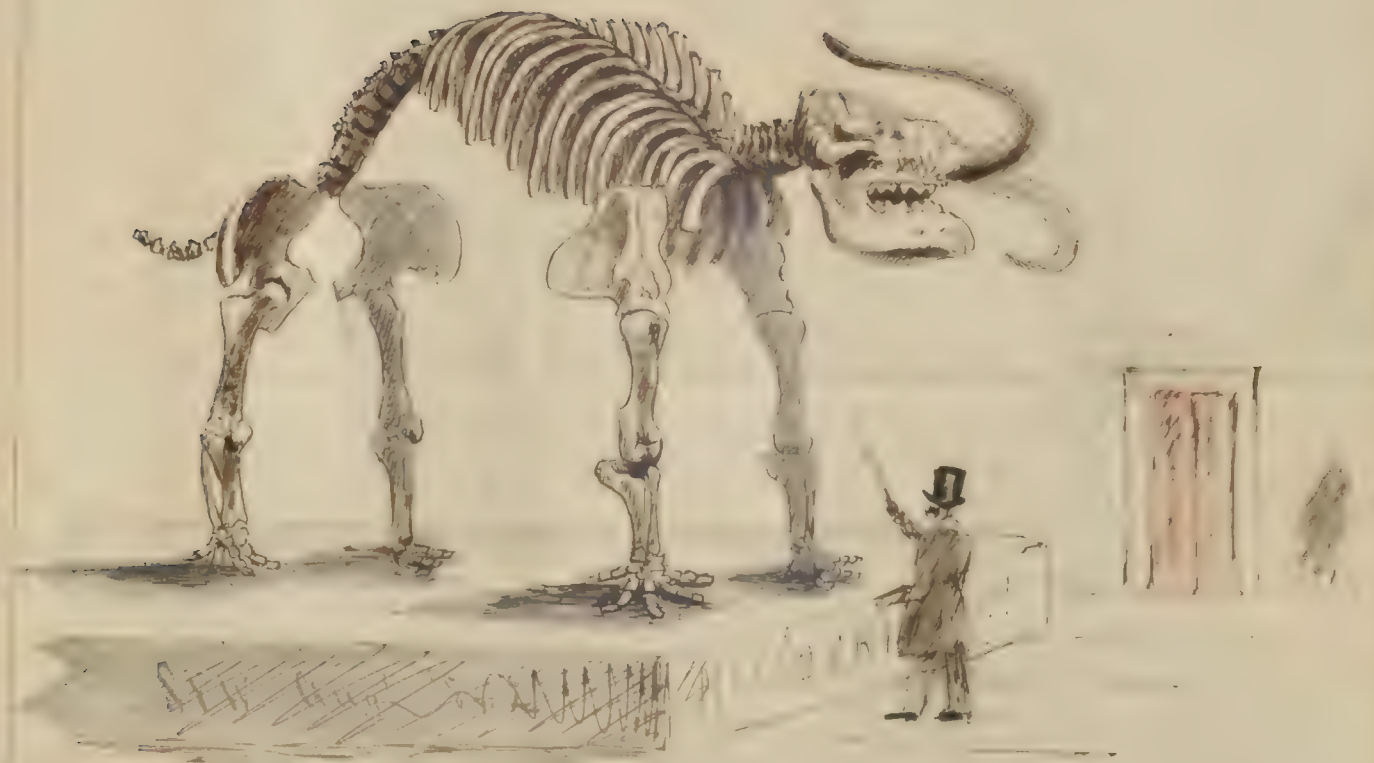


Figure 1. - Mammoth skeleton.



can recognize as an old acquaintance to the rarest exotic, is in my humble opinion, second to the highest charm of the study of Nature. *Vicia cracca*, *Sticheworts*, Forget me not, *Vetches*, *Scrophularia* *nodosa* Cuckoo flowers & hundred others which beautify our own meadows & hedgerows were plentiful here for long.

Had too, the blackcap & the lark — but I cannot complete the picture. I cannot expect sympathy there & you must finish it yourself. — Did you ever pass Leigh Church by Blackheath? There are two fine Yews in it, now covered with ripe berries. The parsonage garden adjoining is also beautifully laid out. But this neighbourhood is so rich in country walks & scenery that I cannot know what particular part to introduce, so many long shady lugepaths, pretty villas, cottages crowned by towering oaks & cedars & where all the sun & moon are the same here as at Norwich, which cannot be said to be the case with The Strand. We have nothing in Norfolk of the same character as Blackheath for prospect it beats us completely & then the warmth & luxuriance of the scenery will vie with the desolation of our own "Mosswood".

Kensington gardens too is very beautiful, the trees reflected in the lake facing the Palace have a very pretty effect.

Had I the time there are plenty of botanizing places within reach. Epping Forest, Chelsea, Camberwell, Battersea Hornsey &c. are within reach by walking. And travelling is such a commonplace thing here that one had need breakfast in the Cordilleras & return home to dinner to have anything to brag about.

The principal places I've seen are, Colosseum, Regent's Park Gardens, Surrey Gardens & M. Vesuvius, "Pauli", Polytechnic Inst., Greenwich Hospital &

Painted Hall, & I've forgotten what else can be seen for one person of the Library of the British Museum. *Bidens tripartita* grows everywhere here, & of the Edgware Road; *Leonurus cardiaca* & *niger* are the only or local plants I've seen.

Provided the Geol. Collection is not removed, I'm inclined to do Bernard a favor, & write to you; he has entirely neglected to secure illustrations for his lecture & if you could spare time amongst the duplicates in the Playroom it would be well to enclose a list to what might be added the list of plants from the Giant's Causeway (which came from the Giant's Causeway) & anything you think would do.

We have one decent chap in this place in the Entomological department he comes from the lab. but has given me once or two desiderata for my collection & has promised more when I can ascertain.

With many thanks for your letter & for your interest in me.

Yours truly  
J. H. Kingston

Yours truly  
J. H. Kingston

Had int<sup>d</sup> to torment you with "Pilgrim's Tunes" by Mrs. Stoddard & set to music it is worth your getting it.









My dear Alice

This sketch of Norwich Castle

The Gate is so pretty that lest it should  
 escape your notice I send a copy. We lived  
 once in the 'Precincts' my younger days  
 were spent under the shadow of the black  
 side - I have been looking out for many of







Rev. Father Herbert Willoughby Woodward, S.S.M.  
Archdeacon of Majila since 1899. Born 7<sup>th</sup> May  
1854. Educated at the Priory School Selington.  
Articled pupil to S. Tanton architect 1869-71.  
Clerk in the Meteorological Office 1872-73. In the  
Architectural Department of the War Office at  
the Horse Guards 1874. Went to Zanzibar in 1875.  
Ordained Sub-Deacon 1876; Deacon 1878. Studied in  
St Stephens House Oxford 1881-84. ordained  
Priest at Geddlesdon 1882. In charge of Majila  
1883-86. Misozywe 1886-89. Majila 1889. Entered S.S.M.  
1894. Publications: Handbook of Bondi Language  
1882.

# The Universities' Mission to Central Africa.

Proposed by DR. LIVINGSTONE, 1859, C. F. MACKENZIE, consecrated first Bishop, 1861.

Telegraphic Address:  
Universities' Mission,  
Westminster."

Office:—14, DELAHAY STREET, WESTMINSTER, S.W.

Mar 30<sup>th</sup> 1894

My dear Kate,

Have you a frame for  
printing photographs 5x4?  
We have a considerable number  
here of which we want to print.  
a couple of copies each just to  
see what are worth preserving  
a set. If I bought them one  
we day, could you help me  
print them or could you lend  
me the frame etc?

Yours affectionately

H. Woodward

The Universities' Mission to Central Africa.

Proposed by DR. LIVINGSTONE, 1859; C. F. MACKENZIE consecrated first Bishop, 1861.

Present Bishops C. A. SMYTHIES (Zanzibar), W. B. HORNBY (Nyasaland)

Secretary for West of England and Wales

THE REV. F. R. HODGSON, M.A., ZANZIBAR COTTAGE, EXETER

Address for Telegrams—HODGSON, EXETER.

ALL REMITTANCES SHOULD  
BE SENT TO THE  
SECRETARY,  
14 DELAHAY STREET,  
LONDON, S.W.

April 17 1894

My dear Aunt,

I forgot at the time to  
send what stamps I had.

Enclosed are a few and I  
will look out for more. Do  
you want duplicates? We  
don't often get a variety of  
the German stamp. Pesa = Indian  
pice and  $\frac{1}{2}$  = a quarter of an  
anna. 16 annas = 1 Rupee.

Mother is here keeping home  
for me till the end of April  
I think she has been

Yours affectionate nephew  
J. W. Woodhouse

The Universities' Mission to Central Africa.

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ALL REMITTANCES SHOULD  
BE SENT TO THE  
SECRETARY,  
14 DELAHAY STREET,  
LONDON, S.W.

April 28 1894

My dear Aunt,

I am afraid I cannot  
send the plates till I get to  
London which will be about  
the 8<sup>th</sup> day. If I can I  
will come one day in Whitson-  
or following week.

I leave here on Monday but  
nothing stops me I'm glad to say  
till towards the end of the week.  
We will have a nice quiet  
time but the weather has been  
so inclement we have been  
scarcely at all.

Love to all. Your affectionate nephew  
J. W. Woodhouse

I hope to see you soon





THE ROYAL COLLEGE OF SCIENCE AND  
THE UNIVERSITY OF LONDON.

I AM sorry to have to sound at the outset a note of sadness. We little thought when the end of the session brought release for us all that before we could meet again death would intervene to prevent one of our number from joining his colleagues and friends at the reassembly. It may not be known to every one present that a deplorable accident has deprived the College of one of the most brilliant and popular of the junior members of the staff. Mr. Martin Woodward, demonstrator of zoology, was the younger son of Dr. Henry Woodward, the eminent keeper of the geological department of the British Museum, who is a personal friend of many of us and respected by everybody. United as father and son were, not only by ties of affection but by constant companionship in their scientific pursuits, we can only guess and I cannot express, the severity of the father's loss. All we can do on this sad occasion is to offer to the family of our departed friend our most heartfelt sympathy. Mr. Woodward entered the College as a student in 1882 and gained the Murchison prize and medal. He was appointed demonstrator by Prof. Huxley in 1885, and has since that time worked under the direction of Prof. Howes. Most of us deplore the loss of a genial, kindly and accomplished friend, but science too is the poorer by this unhappy event, for Woodward was well known as a zoologist, and his extensive knowledge, skill as a manipulator and scientific enthusiasm seemed to promise a high place for him among the biologists of his time.

Nature Oct. 10. 1885.

Martin Fountain Woodward  
2nd son of Dr. Henry Woodward, F.R.S.,  
born in London November 5<sup>th</sup> 1865.  
Educated at the Kensington Gram-  
mar School, & at the Normal  
School now the Royal College of  
Science. He was Murchison Medalist  
in June 1884. Appointed Assistant  
Demonstrator under Professor  
Huxley October 1885. & Demonstrator  
October 1886. Hon. Sec. Mal. Soc. 1897 -  
Mr Woodward is Author of papers  
on the Anatomy of Mollusca &  
Earth worms, & on the development  
of Invertebrates. In 1898-1900  
he edited & brought up to date vols ii  
iii & iv the English edition of Hirschalt  
& Meider's Text book of Embryology of the  
Invertebrates. He was drowned  
on the night of Sep 15<sup>th</sup> by the  
capsizing of a boat at Moyard nr.  
Letterfrack Co Galway, where he  
was in temporary charge of the Marine  
Biological Station of the Fisheries Board  
during the long vacation.

The Lab.  
Citadel Hill  
Plymouth  
12/9/98

My dear Mother

I hope you are  
now quite all right -  
again & that you are  
having slightly cooler  
weather. Here it has  
been distinctly cooler the  
last few days although  
it still remains fair





Martin Fountain Woodward  
2nd son of M. Henry Woodward F.R.S.  
born in London November 5<sup>th</sup> 1865.  
Educated at the Kensington Gram-  
mar School, & at the Normal  
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& Heider's *Textbook of Zoology* of the

regard with suspicion everything which the seniors have to say.  
But I do not seriously blame them. If it were not thus the  
world would soon be too wise for happiness, the sense of  
adventure would no longer brighten the springtime of life which  
"sicklied o'er with the pale cast of thought would lose the  
name of action."

Apart from the advice which it is my custom to address to my  
own class on the conduct of their studies, all I desire to say to  
the students here can be expressed in a few words. Do not  
suppose that we seniors are indifferent to your fortunes, to your  
struggles and successes or failures. On such a day as this we  
rejoice with those who have reason to rejoice—the winners of  
prizes and rewards. We would gladly be among you as equals  
or competitors; we think of our own time and the happiness  
of something attempted, something done. Go on and prosper.  
To the newcomers whom we welcome to-day, we wish a like  
success in the years which are to follow. But it must not be  
forgotten by them that this demands effort, strenuous and sus-  
tained effort. It will not be enough to enter the College every  
day at a few minutes after ten and leave it at a few minutes before  
four, and though I do not advise midnight oil, I do venture to  
say that the chief purpose of the Royal College of Science is not  
to provide a pleasant kind of club for a few privileged young  
persons at the expense of the Government or of their own  
parents and friends.

*Aut disce aut discede* ought to be written up here as it is in  
another place.

The third course hinted at on that celebrated notice board is

drowned  
by the  
yard w.  
where he  
of the Maine  
fisheries Board

The Lab.  
Citadel Hill  
Plymouth  
12/9/98

My dear Mother

I hope you are  
now quite all right -  
again & that you are  
having slightly cooler  
weather. Here it has  
been distinctly cooler the  
last few days although  
it still remains fair





THE ROYAL COLLEGE OF SCIENCE AND  
THE UNIVERSITY OF LONDON.<sup>1</sup>

I AM sorry to have to sound at the outset a note of sadness. We little thought when the end of the session brought release for us all that before we could meet again death would intervene to prevent one of our number from joining his colleagues and friends at the reassembly. It may not be known to every one present that a deplorable accident has deprived the College of one of the most brilliant and popular of the junior members of the staff. Mr. Martin Woodward, demonstrator of zoology, was the younger son of Dr. Henry Woodward, the eminent keeper of the geological department of the British Museum, who is a personal friend of many of us and respected by everybody. United as father and son were, not only by ties of affection but by constant companionship in their scientific pursuits, we can only guess and I cannot express, the severity of the father's loss. All we can do on this sad occasion is to offer to the family of our departed friend our most heartfelt sympathy. Mr. Woodward entered the College as a student in 1882 and gained the Murchison prize and medal. He was appointed demonstrator by Prof. Huxley in 1885 and has since that time worked under the direction of Prof. Huxley. Most of us deplore the loss of a genial, kindly and capable friend, but science too is the poorer by this untimely death. Mr. Woodward was well known as a zoologist, and his knowledge, skill as a manipulator and scientific training were well adapted to promise a high place for him among the zoologists of his time.

Nature Oct. 13. 1886.

Martin Woodward  
2nd son of Dr. Henry Woodward  
born in London Nov. 1864  
Educated at the Tru-  
man School, & at the  
School now the Royal  
College of Science. He was Junior  
in June 1884. Appointed  
Demonstrator under  
Huxley October 1885.  
October 1886. Hon. Sec. of  
Mr. Woodward is author  
on the Anatomy of  
Earth worms, & on the  
of Mammalian teeth  
He edited & brought up  
Vol. IV the English edition  
& Huxley's Text book of  
Invertebrates. He is  
on the night of Sep.  
captain of a boat at  
Letterfrack Co. Galway  
was in temporary charge  
Biological Station of the  
during the long vacatio

& calm.

I am leaving here on Wednesday  
for Mr Gillette shall  
arrive there sometime in  
the afternoon. So please  
forward any letter there,  
I shall stay about a  
fortnight.

Love to all

from your affectionate

son

Martin Woodward



Thomas Wright, F.R.S., F.R.S.E., F.S.L.  
 Born at Paisley Nov. 9<sup>th</sup> 1809. died  
 at Cheltenham Nov. 17<sup>th</sup> 1884, he  
 was educated at the Grammar  
 School in the town, & was then  
 articled to a Surgeon, he afterwards  
 entered as a Student, the Roy. Coll  
 Surgeons Dublin. Graduated in  
 Medicine at St. Andrews in 1864.  
 He practiced as a Surgeon in Cheltenham  
 for many years.  
 Dr Wright devoted much of his  
 leisure to the study of Palaeontology  
 & made a fine collection of Mesozoic  
 Schizodermata & Cephalopoda  
 These he described in the vols.  
 of the Palaeontographical Society.  
 In 1878 he commenced a description  
 of the Dias Ammonitidae.  
 The Council of the Geological  
 Society awarded him the  
 Wollaston Medal in 1878.



Chatterham 6 Feb 1872

Dear Woodward

I am very glad that you gave  
me the opportunity of adding my  
name to your Memorial in favor  
of Mr. Butler for whose fate I feel  
most acutely, as well as now is  
a true "C'est la Terre" trusty  
that we succeed in our efforts.

Believe me always

Yours most truly  
Thomas Wright

Chatterham 12 Feb 76

Dear Woodward

I am very sorry to miss  
seeing you when you were in town  
as I wanted to show you a new  
proof of Archimedes' principle. I  
have had a chat about  
several matters but my "back"  
will keep you for the next visit.

In compliance with your request  
I enclose my certificate. I go with  
the "Old Salt." I have worked for  
the Society now 25 years.



Thomas Wright, F.R.S., F.R.S.E., F.S.I.  
 Born at Paisley Nov. 9<sup>th</sup> 1809. died  
 at Cheltenham Nov. 17<sup>th</sup> 1884, he  
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 of the Palaeontographical Society.  
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 of the Dias Ammonitidae.  
 The Council of the Geological  
 Society awarded him the  
 Wollaston Medal in 1878.



I have  
the  
same  
of the  
work  
2 x  
that  
solid

and when I looked over the  
materials, <sup>the other day</sup> I could well if it had to  
be done it would not be done for  
the labour has been immense  
in much waste believe me  
always

Yours Very Truly  
Thomas Wright

Henry Woodward  
London

J. F. R. S.



Sir Allen Gurney; or 1877.  
C. B., served in the Crimean  
War, Auckland Expedition,  
Tasmanian Expedition; Suakin;  
Commanded "Pandora"  
Arctic Expedition 1875-76.  
Royal Naval Reserve.

1, ST JAMES'S STREET.  
S.W.

June 8<sup>th</sup>

Dear Sir

I wrote Mr Fiddings  
at the address you sent,  
gave me but I have  
had no reply & will you  
be so good as to tell  
me if you should hear  
where he is or I am

1, ST JAMES'S STREET.  
S.W.

13 June

My dear Sir

I am too much  
obliged to you for all  
the trouble you are  
so kindly taking for  
me. I really want  
to get a good and  
complete geological

1, ST JAMES'S STREET.  
S.W.

21 June 178

My dear Sir

Dr Horner tells  
me that you have been  
so good as to send him  
some geological specimens  
and that I owe £2-  
for them so I send  
you a cheque for that



Work and time to

engage a geologist for

my little expedition

Yours truly

Allen Young

Heard Island by

F R S

British Museum

6  
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2.  
1

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Ca

~~Amat~~

I am afraid and hi

ing the in the a

not here - perhaps

with us the I have

I thank you for all

you have

yourself

Allen Young

W Woodward Esq

British Museum



Sir Allen Young; or 1877.  
 C. B., served in the Crimean  
 War, Trenchard Expedition,  
 Tappin's Rebellion; Inactive;  
 Commanded "Purcell"  
 Arctic Expedition 1876-78.  
 Royal Naval Reserve.

Dear Sir

as the

gone to

had to

be so

me if

where

about the 25<sup>th</sup> and I will give you

the pleasure of calling on you again

Yours I leave

Believe me  
Yours sincerely

Allen Young

H. "Henderson" Esq.  
 22 -

to come with me as  
consider the most  
important part of our  
little expedition and  
I am still in hopes  
that one of you  
could accompany me  
Come forward - I hope  
there will be some result

1, ST JAMES'S STREET.  
S.W.

21 June 1788

My dear Sir

Dr Horner tells

me that you have been  
so good as to send him  
some geological specimens  
and that I owe £2 -  
for them so I send  
you a cheque for that



HENRY & CO  
Publishers.



THE PAGEANT, A CHRISTMAS BOOK,  
LITERARY EDITOR, GLEESON WHITE,  
ART EDITOR, C. HAZELWOOD, SHANNON.

10 Theresa Place  
Rauenscourt Park W.

Dec 4

Dear Miss Woodward

Many thanks for the drawing. I  
Should like to see both - & if the publishers  
agree with me - shall do so - I will write  
to you again if we do.

Thanks also for the circular - I shall  
certainly look into the association

Your visit was such a very pleasant  
one - that my daughter - my wife & myself  
only hope it will be repeated - But I  
know how large a circle of friends must  
always be clamouring for you spare him.  
Yet we are greedy enough to ask for a  
share of it - when you can spare it

Faithfully yours  
Gleeson White







München, den 3ten Aug. 1896

Hochgeachteter Herr College!

Ihre Briefe auf Ihren ihm etwas näherstehenden  
Beschreibung des Aufbaus, welche mein Ver-  
ständnis bei Herstellung von Anzeigensabgüssen  
erweitert. Es ist dabei zu bemerken, daß Gyp-  
formen für die in dem Rezept bezeichnete Weise  
nicht angewendet werden dürfen, da sie letzteren  
nicht von der Form ablösen. Es ist vielmehr eine  
Leimform herzustellen. Auch für Gipsab-  
güsse empfiehlt sich eine Leimform.

Ich bin sehr dankbar mit dem Bestimmen  
d. Aufarbeiten meines in Algenen gegebenen  
Vorstudiums beauftragt. In Bezugnahme  
der Société géologique von München will ich  
ich sehr gerne gewünscht, daß meine am 1. August  
durch Herrn College vorausgesetzt werden.

Mit collegialen Grüßen

mit sehr angenehmer

Zittel



Zittel, Prof. Karl Alfred von  
born September 25<sup>th</sup> 1839,  
at Bahlingen in Baden.  
In 1857 he entered the Uni-  
versity of Heidelberg, & after-  
wards studied for a year  
in Paris. In 1861 he published  
his first geological paper  
On leaving Paris, he joined the  
Geological Survey of Austria  
& commenced work in Dalmatia.  
In 1863 he accepted a post in  
the Royal Museum of Nat. Hist.  
In 1890 Prof. Zittel was appoint-  
ed Keeper of the State Geological  
Collections in the Munich  
University, where he had  
been Professor of Palaeontology  
for many years. He died  
January 5<sup>th</sup> 1904.  
He was author of 4 books &  
59 papers.

Munich 10<sup>th</sup> January 1878

My dear Sir,

Many thanks for your very kind reply to my letter to Dr. G. F. Hinde, in sending quite a collection of most valuable papers on fossil Crustacea, which I had perused <sup>in the journals</sup> some weeks ago for the 3<sup>rd</sup> part of the 2<sup>d</sup> vol. of my Handbuch der Palaeontologie.

The pamphlet on Praearturus gigas was of the greatest interest for myself, as it shows that your Oldred Crustacean is probably very nearly related to Arthropleura. This peculiar genus has been illustrated by M. Kliver in Palaeontographica Vol. XXIX and XXXI and seems to be an intermediate form between Isopoda and Amphipoda. The general form and the dorsal side are entirely like the Isopodes, but the legs of the Perion and Pleon seem

München, den 18 Decemb  
1878

Hochgeehrter Herr!

Herr Rob. Damon schreibt mir, dass Sie durch dringende Arbeiten bis jetzt verhindert gewesen seien, eine Tauschsendung für unser Museum zusammen zu stellen, <sup>(und)</sup> dass Sie dringend wünschten, sich Ihrer Verpflichtung baldigst zu entledigen. Ich weiss aus besten, wie mühsam und unangenehm das Ausschicken von Dubletten ist und wie schwer man für derartige Geschäfte Zeit findet. Da ich mich selbst schon mehrfach solcher Verzögerungen schuldig gemacht habe, so finden Sie in mir einen milden Beurtheiler und ich bitte Sie, sich keine Sorgen über diese Angelegenheiten zu machen.

Herr Damon bietet mir in Threus Auf-  
trag eine Sammlung devonischer Fische  
aus Schottland



München, den 3ten Aug. 1896

Gefegener Herr College!

Ihre Briefe auf Ihren mir etwas unvollständig  
beschriebenen des Auftrags, welches mein Vor-  
wissen bei Herstellung von Anzeigensabgüssen  
verwendet. Es ist dabei zu bemerken, daß Gips-  
formen für die in dem Rezept bezeichnete Weise  
nicht verwendet werden dürfen, da sie letzteren  
nicht von der Form ablöset. Es ist vielmehr eine  
Leimform herzustellen. Auf diese Abgüsse  
abgüsse empfiehlt sich eine Leimform.

Sie bei genauwärtig mit dem Bestimmen  
d. Aufarbeiten meines in Algenen gegebenen  
Anzeigensabgüssen befaßt. In Bezugnahme  
der Société géologique von Wien würde ich  
es sehr gerne gewünscht, daß man am besten  
durch Ihre Kollegen ausfindig machen würde.

Mit collegialen Grüßen

Hochachtungsvoll  
Herrn College

Zittel



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born September 25<sup>th</sup> 1839,  
at Bahlingen in Baden.  
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versity of Heidelberg, & after-  
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ed Keeper of the State Geological  
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University, where he had  
been Professor of Palaeontology  
for many years. He died  
January 5<sup>th</sup> 1904.  
He was author of 4 books &  
59 papers.



so wie obercretarische Fische und Crustaceen  
vom Libanon an. Die ersteren sind mir sehr  
erwünscht, und ich werde Herrn Damon  
schreiben, daß er mir eine möglichst reiche  
Sammlung aus dem <sup>von</sup> Old red schickt. Den  
Fischen aus dem Libanon besitzen wir  
bereits eine reiche Serie.

Am erwünschtesten wäre mir die Sammlung  
von englischen Eocän Conchylien, welche Sie  
die Güte hatten mir aus den Dubletten der  
Edwards Sammlung ~~Aussicht~~ zu stellen.

Um aber keine unbescheidene Forderung  
an Sie zu machen, habe ich meinem Ver-  
sprechen gemäß, schon seit längerer Zeit,  
während der Bearbeitung einer sehr  
grossen, vom hiesigen Museum angekauften  
Sammlung von Eocän Versteinerungen  
aus den Mammuliten Schichten des Kressen-  
bergs, die besten Dubletten für das Britische

Museum zurücklegen lassen. Diese  
Sammlung ist jetzt fertig und enthält  
so ziemlich alle am Kressenberg vor-  
kommenden Conchylien, Korallen und Gra-  
miniferen. Von Echinodermen, Crustaceen  
sind die wichtigsten Formen vertreten. Die  
Bestimmungen wurden mit grosser Sorgfalt  
ausgeführt und entsprechen den in hiesigen  
Museum angenommenen Bezeichnungen.  
Leider lässt der Erhaltungszustand dieser  
Schäferne Vieles zu wünschen übrig.

Die Kiste enthält ausser der genannten  
Sammlung von Eocän Versteinerungen  
in zwei kleinen besonderen Kästchen eine  
Auswahl fossiler Hexactinelliden und  
Lithistiden, welche als Belegstücke zu  
meinen Untersuchungen über die fossilen  
Spongien dienen können. Es sind die  
meisten der von mir od. von älteren Autoren  
aufgestellten Gattungen in charakteristisch



München, den 3ten Aug. 1896

Hochgeachteter Herr Collage!

Ihre Briefe auf Ihren ihm etwas näherstehenden  
Beschreibung des Ammonoiten, welche mein Prä-  
parat bei Herstellung von Ammonoiten abgibt  
verwandelt. Es ist dabei zu bemerken, daß die  
Formen für die in dem Rezept bezeichnete Ab-  
schnitt verwandelt werden können, da sie letzteren  
mit der Form abläßt. Es ist demnach eine  
Linsform herzustellen. Auf diese Befehl-  
abgabe empfiehlt sich eine Linsform.

Sie bei genauwärtig mit dem Bestimmen  
n. Aufarbeiten meiner in Algenen gegebenen  
Anweisungen beschäftigt. In der Zwischenzeit  
der Société géologique von München soll  
es sehr zu wünschen sein, daß man am besten  
durch Collage verwandelt werden kann.

Mit collegialen Grüssen  
Ihrer ergebener  
Zittel



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born September 25<sup>th</sup> 1839,  
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been Professor of Palaeontology  
for many years. He died  
January 5<sup>th</sup> 1904.  
He was author of 4 books &  
59 papers.

Fragmenten vertreten, welche sich zur mikro-  
skopischen Untersuchung eignen. Ich hoffe  
diese kleine Sammlung wird denjenigen  
Fachgenossen, welche sich mit Spongiën be-  
schäftigen, von einigem Nutzen sein.

Nach den Feiertagen werde ich die  
Kiste an die Adresse des, "Principal  
Librarian des British Museum" abschicken,  
so dass Sie bis Mitte Januar im Besitz  
derselben sein werden.

Genehmigen Sie die Versicherung  
der vorzüglichsten Hochachtung

Ihres ergebensten

Dr. R. Zittel

P.S. Herr Dawson schreibt  
mir, dass Sie einen Abguss des  
Archaeopteryx für unser Museum  
haben herstellen lassen. Ich bin  
Ihnen ganz ausserordentlich  
dankbar dafür.

S. O.



München, den 3ten Aug.

Gefegener Herr College!

Ihre Briefe ist Ihnen eine kleine Erinnerung  
beifolgend, welche man  
sonst bei Gelegenheit von Anwesenheit  
verwendet. Es ist dabei zu bemerken, daß  
Formen für die in dem Bericht beigefügt  
nicht verwendet werden dürfen, da sie  
nicht von der Form abkömmt. Es ist demnach  
Linné Form vorzuziehen. Auch für die  
abgegebene empfiehlt sich die Linné Form.

Ich bin gegenwärtig mit dem Vortr.  
n. Aufarbeiten meiner in Oligocän ge-  
hörigen Sammlungen beschäftigt. In der  
der Société géologique von Paris werden  
es sehr, wie gewünscht, daß man sich  
diesem College angeschlossen hat.

Mit collegialen Grüssen  
verbleibe ich  
Zitte

to be similar and show more affinities  
with the Amphipoda.

I shall return your copy of the paper  
on *Paeacetus* in a few days and  
remain with many thanks

Yours truly,

Zittel

München, den 18 Decemb  
1878

Hochgeehrter Herr!

Herr Rob. Damon schreibt mir, dass Sie durch dringende Arbeiten bis jetzt verhindert gewesen seien, eine Tauschsendung für unser Museum zusammen zu stellen, <sup>und</sup> dass Sie dringend wünschten, sich Ihrer Verpflichtung baldigst zu entledigen. Ich weiss aus besten, wie mühsam und unangenehm das Aussuchen von Dubletten ist und wie schwer man für derartige Geschäfte Zeit findet. Da ich mich selbst schon mehrfach solcher Verzögerungen schuldig gemacht habe, so finden Sie in mir einen milden Beurtheiler und ich bitte Sie, sich keine Sorgen über diese Angelegenheiten zu machen.

Herr Damon bietet mir in Threus Auf-  
trag eine Sammlung devonischer Fische  
aus Schottland



Highcliffe  
Nov 22  
1884

Dear Captain Ogle

I hope you will be able to  
dine at Highcliffe on  
Saturday next at a quarter  
to 8. & I trust your cold  
is better. -

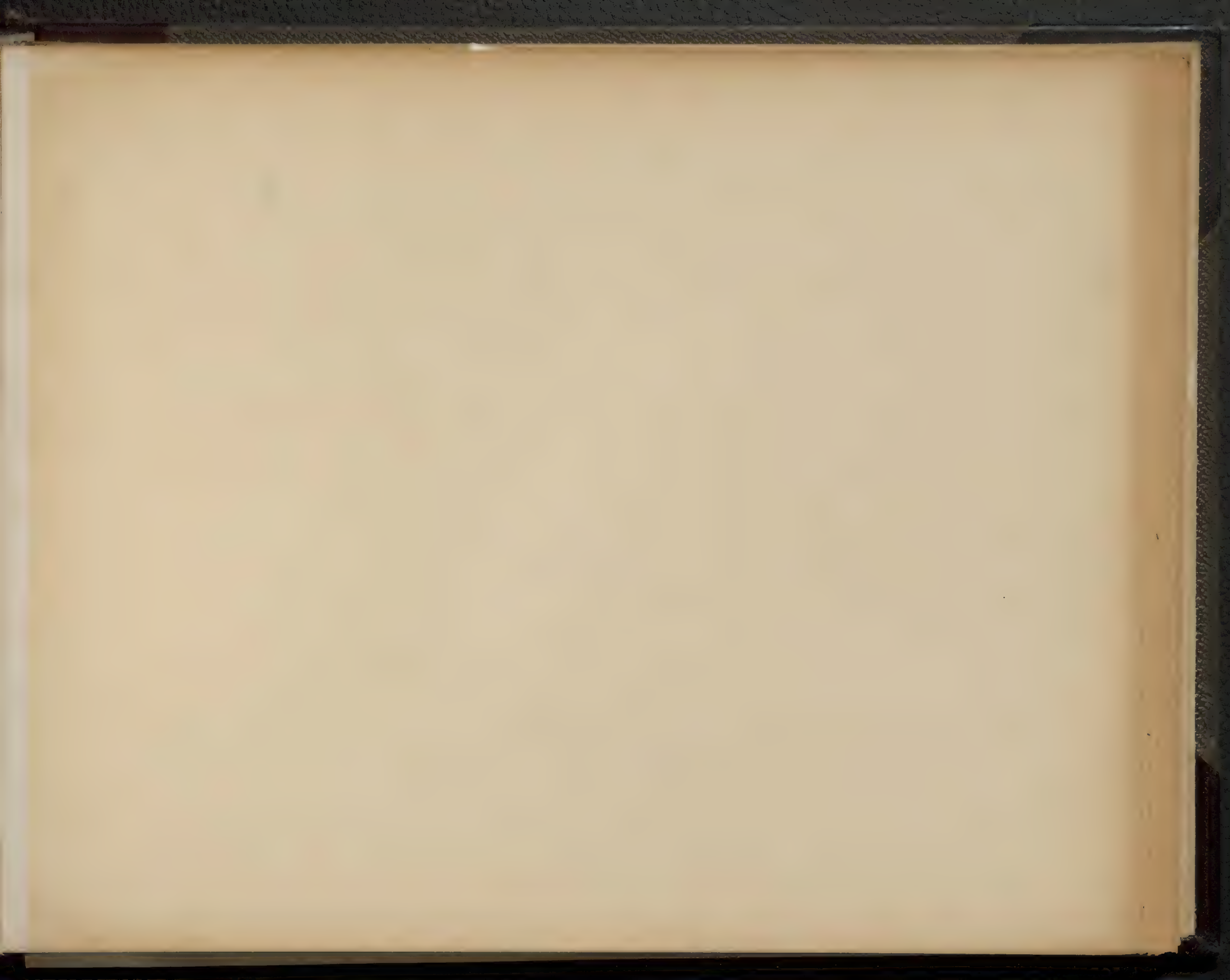
Yours truly

L. Waterford



















Woburn Abbey.

8 June  
1503

Dear Dr Hardward

If it is the wish  
of the Council I will  
certainly move the  
resolution for the pension  
of Mr Slater

I hope the resolution will





be carried and that  
it may prove the end of  
much contention

Yours Sincerely  
Bedford







Francis Galton, Esq. F.R.S. &c.

From FRANCIS GALTON, 42, RUTLAND GATE, LONDON, S.W.

Sept. 24 1904

Dear Dr. Woodward

Now, thanks to J. (S) returns  
 & the 3 pamphlets, with the excellent portraits.

In your return you have omitted  
 a nephew who is F.R.S., - Horace Kinsley; but  
 hear his return also. and have rectified the omission.

Very faithfully,

Francis Galton

Galton, Francis, F.R.S., D.C.L., Hon. Sc.D.  
 was born 16<sup>th</sup> of February 1822. He was  
 educated at Boulogne, France, Henleworth,  
 King Edwards School, Birmingham, Kings  
 College London, & Trinity College Cambridge.  
 He spent his early years travelling. In 1853  
 he published an account of his journey  
 "Tropical South Africa". He won the gold  
 medal of the Royal Society. In 1868 he  
 published the earliest map of contemporary  
 weather in Europe. He wrote his work "Heredi-  
 tary Genius" in 1869. & "On Finger-Prints" 1893.









1, PALL MALL EAST,  
LONDON, S. W.

18 Dec 1903

Dear Mr. Woodward

I looked out for  
-you at the Halcardses.  
Dinner the other night -  
but I think by the  
time I was free you  
had gone.

I should like

52. Boundary Pond  
N.W.  
August 1. 1896

Dear Sir,

Hearing from my  
friend Mrs. Pargues that you  
were desirous of seeing the  
picture of the Thatched House  
as soon as possible, I applied  
to the Keeper of the Gallery,  
Mr. J. L. Ridgway, to let me  
have it at the close of the Old  
Water Column Gallery to day, 6 p.m.



to have had a talk  
about our Collection  
at Rossie

I hope we may meet  
some other time

Best wishes for Christmas

Yrs &c  
Wm Baird

instead of on or after Tuesday  
next. With this letter I now  
deliver it at your house, and  
I shall be much obliged  
if you will sign, and have  
posted, the enclosed post-card  
addressed to Mr. Ridge, as a  
receipt to him as Keeper.

With the hope that the picture  
will not disappoint you.

I am,  
Dear Sir  
Yours faithfully  
Fred. Smallpiece

Hugh Owen Esq.

































